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# QUESTIONS

# **TOPIC: ADHESIVE**

## DIRECTION: Choose the correct answer from the lettered options.

1. A urea formaldehyde (U. F.) has a shelf life between	powder resin and a hardener	already mixed together
A. 1 – 2 months		
B. 2 - 4 weeks		
C. 1 - 2 years		
D. 2 - 4 days		
2 is a type of protein of skin milk.	adhesive which is the powde	ered extract from the curds
A. Vegetable protein adhesive	Э	
B. Casein glue		
C. Fish glue		
D. Chemical glue		
3. When mixing the resin and t	he hardener, it should be me	easured
A. according to the wood wor	kers desire	
B. according to the maker's in	structions	
C. according to the size of mi	xing pot	
D. all of the above		
4. Assembly time of P.V.A. (Po	lyvinyl Acetate) is from	
A. 2 - 5 seconds		
B. 10 - 20 seconds		
C. 10 - 20 minutes		
D. 10 - 20 hours		

5 is a substance used to bond two surfaces together.	
A. Polish	
B. Abrasive	
C. Dowel	
D. Adhesive	
6. Characteristics of animal glue include all except	
A. it must be used hot or cold	
B. it may be attacked by mould and fungi	
C. it is non-inflammable and non-toxic	
D. it can be stored indefinitely if kept cool and dry	
7. For application of animal glue, you need to	
A. apply hot with brush or heated glue spreader	
B. warm the parts to be glued during cold weather	
C. remove surplus glue with hot water	
D. all of the above	
8. Epoxy resin is used to bond	
A. wood to wood, wood to metal	
B. metal to metal, metal to china	
C. wood to plastic, wood to glass	
D. all of the above	
9. The steps in preparation of ready mixed casein for use are	
A.	
1. Add the powder to the cold water	
2. Stir mixture until it thickens	

3. All	ow to stand while react	ions take place		
4. Aft	ter standing the mixture	e thins, stir again		
В.				
1. Add	d the powder to cold w	ater		
2. All	ow to stand while react	ions take place		
3. Aft	ter standing the mixture	thins, stir again		
4. Sti	r mixture until it thicker	าร		
C. C.				
1. Stii	r mixture until it thicken	s		
2. Ad	ld the powder to cold w	vater		
3. All	ow to stand while react	ions take place		
4. Aft	ter standing the mixture	e thins, stir again		
D. all of the	above			
10 cramping.	assembly time is the pe	eriod during which	adjustments are p	ossible before
A. Open				
B. Wet				
C. Closed				
D. Dry				
11. Which of	the following is not tru	e of P.V.A. (Polyvir	ıyl Acetate) adhesi	ve?
	usually white or cream	63	285	
	used without further p			

B.

C. Storage life is about one month

D. Obtainable in plastic tubes and squeeze jars

12. Pot life of glue depends on	
A. harder used and the prevailing temp	perature
B. workshop used	
C. method used in mixing the glue	
D. who mixed the glue	
13. A urea formaldehyde (U. F.) viscous	resin shelf life is between
A. 3 - 6 days	
B. 3 - 6 weeks	
C. 3 - 6 months	
D. 3 - 6 years	
14. Types of synthetic resin adhesive in	clude all except
A. urea formaldehyde	
B. melamine formaldehyde	
C. blood albumin glue	
D. epoxy glue	
14. Types of synthetic resin adhesive in	clude all except
A. urea formaldehyde	
B. melamine formaldehyde	
C. blood albumin glue	
D enovy dlue	

16. Glue bleeds when	
A. the woodworker cries because of glu	ue
B. there is excess glue dropping from the	he joints
C. the joint is turn during gluing and cra	amping
D. all of the above	
17. Phenol formaldehyde resin (P.F.) is c	characterized by all except
A. it requires cold setting	
B. it requires pressing and heating at 10	00 - 135oC to set
C. it is used for water proof plywood	
D. it consist of a brownish powder or liq with water	quid resin with a powder filler mixed together
18. Which of the following is not true witl	th melamine formaldehyde resin (M.F.)?
A. Sets by polycondensation	
B. Used for waterproof joints	
C. Used for non-heat proof-bonding	
D. Used for producing plastic laminate	
10.1116.011	
19. Lime (calcium hydroxide) is added to	o casein to
A. make it toxic to moulds or fungi	
B. make casein set quickly	(Car.
C. improve the water resistance of the	glue joint
D. improve the shelf life	
20 is the time it takes the glue applied to the job.	to reach a maximum strength after being

A. Cramping time			
B. Pot life			
C. Assembly time			
D. Setting time			
21. Characteristics of epox	(y resin include	·	
A. applied cold above 15c	C, non-staining		
B. give an extremely stron	g bond between ma	terials, not thermo-p	plastics
C. it is waterproof and hea	atproof		
D. all of the above			
22. The characteristics of	resorcinol formalder	nyde include all exce	ept
A. used cold and non-sta	ining		
B. used hot and staining			
C. makes wood to wood w	vaterproof bond		
D. resistant to solvents. he	eat and moulds		

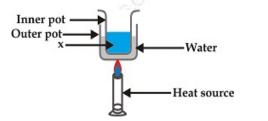
23. The synthetic re	əsin			
A. are of organic o	rigin			
B. it's harder solidi	fies by chemical re	action		
C. of polymerization	on characteristics			
D. all of the above				
24. Which of the fo	llowing is true to th	ne characteristics o	f urea formaldehyde	e?
A. It is staining and	d non-heat resisting	g		
B. It is non-staining	g and fairly heat re	sisting		
C. It is non-stainin	g but resistant to f	ungi		
D. It is non-resista	nt to fungi but stair	ning		
25. Precaution whil	e using synthetic r	esin glue does not	include	
A. irritation of the	skin occurs with the	e glue		
B. glue splashes a	re hard to wash ou	t if set		
C. use brushes wit	h metal ferrule for	mixing the glue		
D. synthetic resin s	stains if in contact	with metal ferrules		
26. The following is	true of Epoxy resi	n except		
A. mixed adhesive	is only usable for a	about 1/2 - 1 hour a	t 20oC	
B. maximum streng	gth takes about 1 m	onth		
C. assembly time is	s a few minutes to	1 hour and cramped	d up to 48 hours	
D. surplus glue is r	emoved before it s	sets with lacquer thi	inners	
	K. S. T.			
27. The joint is star	ved of glue when _			

A. heat is used to acc	elerate setting time		
B. the joint is overfilled	d with protein glue		
C. the joint has little o	r no joint as a result of to	o much cramping	
D. all of the above			
28. Application of P.V.	A (Polyvinyl Acetate) invo	lves	
A. applied cold and sp	oread with brush or serrate	ed spreader	
B. dries by polyconde	nsation		
C. assembled while th	e glue is still wet		
D. attain maximum stre	ength in about 12hours		
29 assembly	time is the time allowed b	petween applying the	glue and fitting
of members together.			
A. Open			
B. Wet			
C. Closed			
D. Dry			
30. Animal glue is gott	en from		
A. hide trimmings			
B. bones			
C. sinews and intestin	es		
D. all of the above			
×			
31. A urea formaldehyc	le (U. F.) white powder res	sin shelf life is betwee	en
A. 1 - 2 days			

B. 1 - 2 weeks			
C. 1 – 2 months			
D. 1 - 2 years			
32. The length of ti	me the glue remain ι	unusable after mixing i	s called
A. shelf life	J	COLL	
B. setting time			
C. assembly time			
D. pot life			
11011		its of the casein and c	
A. ready			
B. wet			
C. water			
D. chemical			
34. Glue pot consi	sts of		
A. outer pot only v	which contains the wa	ater	
B. inner pot only w	hich contains the so	aked glue	
C. water and the g	lue which are heated	by heating source	
D. outer and inner	pot with water and g	lue respectively	
35 synthe 'polycondensation		t by chemical reaction	is known as
A. Polyvinyl Aceta	te (P.V.A.)		
В. Ероху			

C. Resorcinol formaldehyde			
D. All of the above			
36. The application of impact	t adhesive involves .	<del>-</del>	
A. coating both surfaces			
B. allow to dry a little before	assembling		
C. once both surfaces touch	n, adhesion takes pla	асе	
D. all of the above			
37. With contact glue, which	of the following stat	ements is not true	?
A. Made by dissolving synthe	etic rubber in solver	nts and adding fille	ers
B. It dries by polymerization		2	
C. Shelf life is over one year			
D. Phenol is often added and	d are thinned with p	ure Toulon	
	ුර		
38 resin consist of hardener.	a reddish brown liqu	uid resin plus liquid	d or powder
A. Casein adhesive			
B. Urea formaldehyde			
C. Resorcinol formaldehyde			
D. Epoxy			
39. Adhesive can be used to	bond		
A. wood to wood			
B. wood to plastic			
C wood to metal			

- D. all of the above
- 40. The drawing represents \_\_\_\_ pot.



- A. glue
- B. water
- C. polish
- D. glue mixing
- 41. After mixing the urea formaldehyde (U.F.), apply to job by \_\_\_\_\_.
- A. combining the resin and hardener as one liquid and spreading on both parts
- B. applying the liquid resin to one member and the liquid hardener to another
- C. assembling the work while the is still moist
- D. all of the above

42. Casein adhesive is used for			
A. interior gluing assembly			
B. plywood and caul veneering			
C. gluing laminates and laminated be	ending		
D. all of the above			
43. Urea Formaldehyde (U.F.) adhesiv	e is used for	·	
A. caul and cold press veneering			
B. plywood manufacture			
C. production of particle board			
D. all of the above			
44. Casein adhesive can attain a max	imum strength f	or about	- 🔊
A. 30 minutes			
B. 1 day			
C. 1 week			
D. 1 month			
45. The steps in preparing animal glue	e is as follows _	·	
A. soak, break and heat			
B. heat, break and soak			
C. break, soak and heat			
D. all of the above			
xeststre.			

46. Types of protein are \_\_\_\_

A. animal glue				
B. casein glue				
C. vegetable pro	otein glue			
D. all of the above	ve			
47. Types of inclu	ude			
A. protein				
B. synthetic resir	n zs <sup>tre</sup>			
C. contact				
D. all of the above	ve			
48. Types of case	ein glues are	×Q.		
A. hot and cold i	mixed			
B. ready and wet	t mixed			
C. natural and ar	rtificial mixed			
D. ready and dry	/ mixed			
49. All the followi	ing are true to resorc	inol formaldehyde	except	
A. for dense hard	dwoods 40 – 650 giv	es better bonding		
B. maximum stre	ength is attained in ab	oout 5 - 8 weeks		
C. too much pre	essure may produce a	a starved joint		
D. 1/2 - 1hour as	ssembling and about	16 - 24hours cram	ping time is allov	wed
	Xe5			
50. Animal glue i	is also called	glue.		
A contact				

B. hide		
C. cement		
D. all of the above		
51. Which of the precaution is r	not true to animal glue?	
A. Use clean containers		
B. It should run freely from the	e brush without breaking into dro	pps
C. Animal glue should be allow	ved to boil	
D. Parts of the joints must be o	clean and dry	
52. P.V.A. (Polyvinyl Acetate) is	s not used	
A. for general assembly woody	work	
B. for rubbed glued joints		
C. where excessive moisture is	s possible	
D. for fixing wood and plastics	to porous surfaces	
53. Contact are also known as		
A. impact		
B. compact		
C. plastic adhesive		
D. all of the above		
×67		
54. Vegetable protein glue is m	nade from the residue after extra	cting the oil from
- CO - C		
A. soya beans		

B. peanuts		
C. cotton seeds		
D. all of the above		
55. The time a job should be left in the known as	ne cramps before they can be	e safely removed is
A. setting time		
B. assembly time		
C. cramping time		
D. shelf life		
56 mixed casein is a type of mixed separately with water, and the special mixing machines.	of casein glue used in factorie liquids are then added to eac	
A. Ready		
B. Wet		
C. Chemical		
D. Water		
57 is the length of time a glumixing.	ue can be stored between ma	nufacture and
A. Setting time		
B. Assembly time		
C. Shelf life		
D. Pot life		
58. The advantages of casein glue ov	ver animal glue include all exc	ept casein glue
A. is prepared cold and used cold		
B. is prepared hot and used hot		

C. sets due to chemical action, heat accelerate animal glue	es drying, whereas it would remelt
D. is fairly water resistant but not water proof	
59. Qualities of a good animal glue include all e	xcept
A. it swells when soaked in water but does not	dissolve
B. it swells and dissolves when soaked in water	
C. it is clear and free from specks of dirt	
D. it should set hard in the joint after drying	
60 resin is an amber coloured viscous when mixed with a hardener.	liquid which sets by polymerization
A. Epoxy resin	
B. Phenol formaldehyde resin	
C. Polyvinyl acetate	
D. Urea formaldehyde	
61. Casein glue are left in cramps for about	
A. 30 minutes	
B. 1 hour	
C. 4 hours	
D. 1 week	
62. Animal glue is sold by weight in all except _	
A. cakes	
B. powder form	
C. sheets	

D. liquid form	
63 are produced by reacting acet with water.	ylene and acetic acid and then emulsifying
A. Epoxy resin	
B. Phenol formaldehyde	
C. Polyvinyl acetate (P.V.A.)	
D. Casein	
64. Protein is what form of adhesive?	
A. Natural	
B. Artificial	
C. Natural and artificial	
D. Metal	
D. Ivietal	
65. When should the coated surfaces be a	ssamblad?
A. Immediately the two surfaces are coate	O XOS
B. Immediately one surface is coated	
C. When it is tack free when touched	
D. After two hours of coating the surfaces	
66. Some chemicals added to make casein	dissolve in cold water include
A. Sodium Fluoride and Borax	
B. Formaldehyde and Gypsum	
C. Iron carbon and Silicon	
D. All of the above	

67. Contact glue is used in all except	
A. for general joinery work	
B. for veneering ends and edges of panels	
C. for bonding decorative plastics, fabrics, leather etc.	
D. bonding glass to plywood, wood to wood	
68. Precaution in the use of animal glue include	
A. always use animal glue hot	
B. consistency must be right	
C. apply glue to both parts of the job	
D. all of the above	
69. Come in	
A. natural form only	
B. natural and artificial forms	
C. artificial form only	
D. mechanical form	
70. Types of casein glue include glue.	
A. acid and epoxy	
B. lactic and acid	
C. hide and acid	
D hot and cold	

71 is the term used to	o describe the process of setting or hardening of.
A. Bonding	
B. Curing	
C. Moulding	
D. Set hardening	
72. In order to achieve good p following should not be done?	enetration of the glue into the wood, which of the
A. Apply the glue when it has	set a little
B. Mixing should be right cons	sistency not too thick
C. Don't starve the joints by m	aking the glue too light
D. The glue has to be liquidly	hot
73. The best material for the gl	ue pot is
A. enamel	
B. glass	
C. earth ware mixing pot	
D. all of the above	
74. Characteristics of P.V.A. (P	olyvinyl Acetate) glue include all except
A. easy to use	
B. applied hot	
C. non-staining unless in cont	act with metal
D. non-inflammable, non-toxic	10 mm
X	
75. Holding power of animal gl	ue depends on the
A. brush used	

- B. timber used
- C. penetration of the glue into the wood
- D. the time of the day on which glue was applied
- 76. Which of the following is the correct order of manufacturing casein glue?
- A. Precipitating the casein, drying the curd and washing the curd.
- B. Washing the curd, precipitating the casein and drying the curd.
- C. Drying the curd, washing the curd and precipitating the casein.
- D. Precipitation the casein, washing the curd and drying the curd.
- 77. Animal glue is used in all except \_\_\_\_\_
- A. external woodworking
- B. internal cabinet work
- C. plywood making and work
- D. book binding

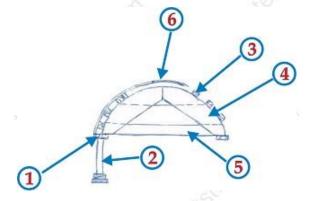
78. The two types of assembly time includes	Ś
A. fast and slow assembly	
B. open and closed assembly	
C. hot and cold assembly	
D. dry and wet assembly	
79. Synthetic resin are	
A. natural	
B. artificial	
C. natural and artificial	

D. none of the above

### **TOPIC: CENTERS AND CENTERINGS**

### **DIRECTION:** Choose the correct answer from the lettered options.

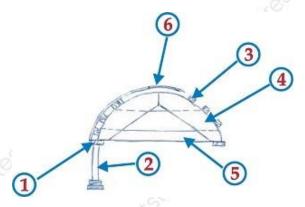
- 1. Which member of the Centre is placed across the lower part to prevent the Centre from spreading out when it is carrying the weight of the arch?
- A. Wedge
- B. Rib
- C. Tie
- D. Prop
- 2. In the construction of a concrete arch Centre, which of the following knowledge is not important?
- A. The crown of the arch
- B. The rise of the arch
- C. The voussoirs of the arch
- D. The span of the arch
- 3. What is the name of the part labelled '2' in the drawing shown?



- A. Prop
- B. Bearer
- C. Tie
- D. Lagging

4	Division .	( ^	۲			1	
4.	Parts c	of Centre	TOP	arcnes	may	include	

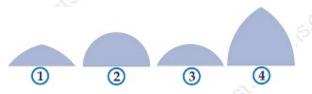
- A. brace
- B. folding wedges
- C. sole plate
- D. all of the above
- 5. The arrow number '5' in the drawing shown is known as \_\_\_\_\_.



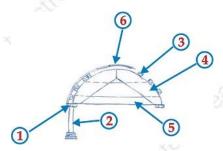
- A. rib
- B. bearer
- C. wedges
- D. lagging
- 6. The concrete is poured on the part of the Centre called \_\_\_\_\_.
- A. lagging
- B. tie
- C. head tree
- D. rib
- 7. A piece of wood which has the actual shape of the arch used to support arch under construction is called \_\_\_\_\_ piece.

A. lagging		
B. supporting		
C. turning		
D. all of the above		
8 point is the Centre po	oint from which the curve of the arc	h is drawn.
A. Centre		
B. Arch		
C. Turning		
D. Striking		
9. The type of formwork made	for casting concrete arches on is c	alled concrete
A. mould		
B. centres		
C. box		
D. holders		
10. The drawing shown, '3' is a	type of arch called arch.	
	(4)	
A. semi-circular		
B. segmental		
C. half elliptical		
D. equilateral		
11. Types of laggings for arch c	entres can be	
A. long or short		

- B. open or closed
- C. thin or thick
- D. wide or narrow
- 12. The drawing shown, '2' is called \_\_\_\_\_.



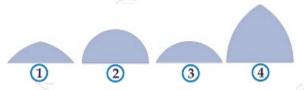
- A. semi-circular arch
- B. segmental arch
- C. half elliptical arch
- D. equilateral arch
- 13. The arch Centre in the drawing shown, '4' is called \_\_\_\_\_ arch.
- A. equilateral
- B. segmental
- C. triangular
- D. semi-circular
- 14. In the drawing shown, the part labelled '1' is called \_\_\_\_\_.



- A. bearer
- B. tie
- C. rib

		٠:	
υ. Ι	ıaq	QΙ	ng

15. The drawing shown, '1' is a type of arch called \_\_\_\_\_.



- A. semi-circular arch
- B. segmental arch
- C. half elliptical arch
- D. equilateral arch

16. \_\_\_\_\_ is the highest point of the arch at which the key brick is placed.

- A. Crown
- B. Span
- C. Rise
- D. Extrados

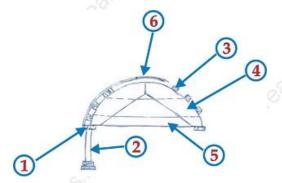
17. The horizontal member of the arch Centre that spans the opening holding the ribs is called \_\_\_\_\_.

- A. lagging
- B. tie
- C. head tree
- D. rib

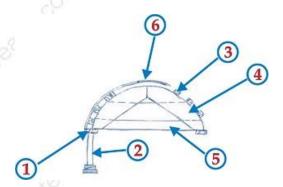
18. \_\_\_\_\_ is the small pieces fixed across the ribs to carry the voussoirs.

- A. Ties
- B. Laggings

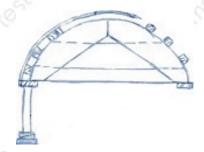
- C. Bearers
- D. Props
- 19. \_\_\_\_\_ is the part with arrow '3' in the drawing.



- A. Prop
- B. Bearer
- C. Tie
  - D. Lagging
  - 20. The timber underneath the ties that prevent the ribs from spreading apart and at the same time carrying the weight of the centre and the arch is called \_\_\_\_\_.
  - A. bearers
  - B. struts
  - C. wedges
  - D. ribs
  - 22. In the drawing shown, the part labelled '4' is called \_\_\_\_\_.



- A. bearer
- B. rib
- C. wedges
- D. lagging
- 23. What type of drawing is shown?

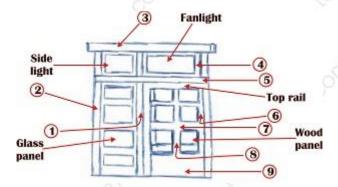


- A. Semicircular roof
- B. Umbrella shade
- C. Semicircular arch
- D. Semicircular staircase
- 24. The parts of centres for arches does not include \_\_\_\_\_\_
- A. ties
- B. ribs
- C. noggin
- D. lagging

**TOPIC: DOORS** 

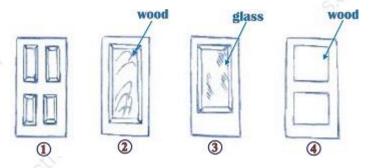
## **DIRECTION:** Choose the correct answer from the lettered options.

1. What is arrow '8' called?



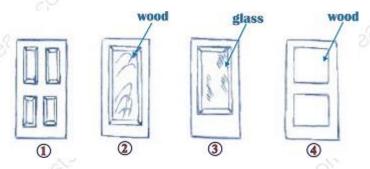
- A. Stile
- B. Middle rail
- C. Muntin
- D. Jamb

2. Which of the drawings is one glass paneled door?

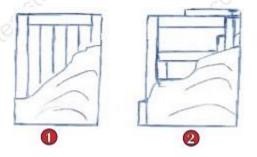


- A. "1"
- B. "2"
- C. "3"
- D. "4"

3. Which of the drawings is one wood paneled door?

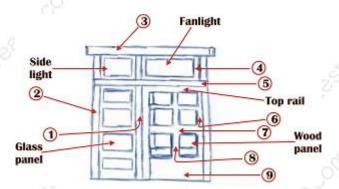


- A. "1"
- B. "2"
- C. "3"
- D. "4"
- 4. The drawing labelled '1' is \_\_\_\_\_ flush door.

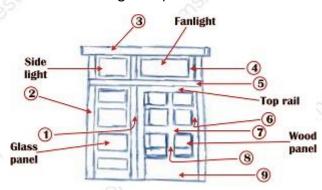


- A. solid core
- B. plain
- C. hollow core
- D. battened core

5. In the diagram, the drawing labelled '2' is called \_\_\_\_\_

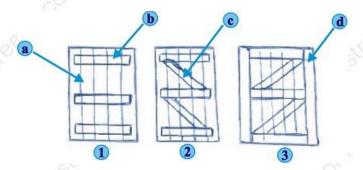


- A. mullion
- B. muntin
- C. jamb
- D. sash
- 6. In the drawing, the part labelled '3' is the \_\_\_\_\_.

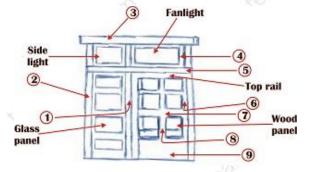


- A. transom
- B. sash
- C. mullion
- D. head

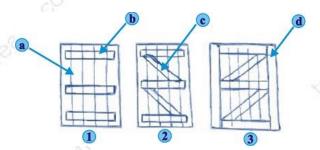
7. What does the 'd' in the drawing indicate?



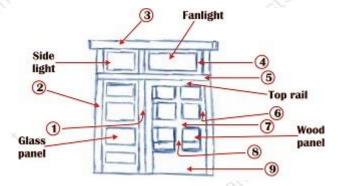
- A. Ledge
- B. Batten
- C. Frame
- D. Brace
- 8. Functional requirement of a door when it is closed includes \_\_\_\_\_
- A. prevention of unauthorized entry
- B. resistance to weather
- C. resistance to the passage of heat and sound
- D. all of the above
- 9. What is the part numbered '6' called?



- A. Jamb
- B. Sash
- C. Muntin
- D. Stile
- 10. The arrow 'c' in the drawing shows the \_\_\_\_\_\_



- A. ledge
- B. batten
- C. frame
- D. brace
- 11. \_\_\_\_\_ have plain flat plywood surfaces on both sides.
- A. Paneled
- B. Flush
  - C. Battened
  - D. Glazed
  - 12. What is the name of the part labelled '4' in the drawings?

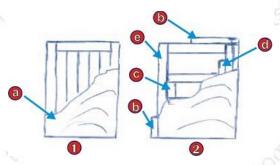


- A. transom
- B. sash
- C. muntin
- D. head
- 13. What type of are drawn?

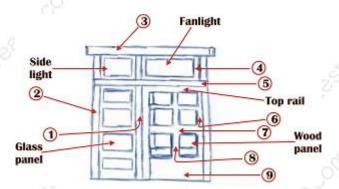




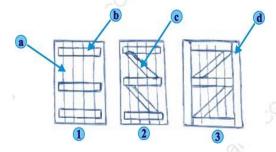
- A. Paneled
- B. Flush
- C. Plywood
- D. Battened
- 14. The types of raised panels includes \_\_\_\_\_\_
- A. bevel raised
- B. bevel raised and fielded
- C. square raised and fielded
- D. all of the above
- 15. What is the name of the part labelled 'c' in the diagram?



- A. Lipping
- B. Lock block
- C. Hinge block
- D. Stile
- 16. The arrow labelled '7' in the diagram is the \_\_\_\_\_.

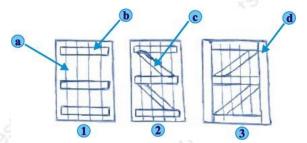


- A. jamb
- B. lock trial
- C. stile
- D. muntin
- 18. Doors are named according to \_\_\_\_\_.
- A. the location
- B. type of construction
- C. method of hanging
- D. all of the above
- 19. The part of the battened door labelled 'a' is called \_\_\_\_\_.

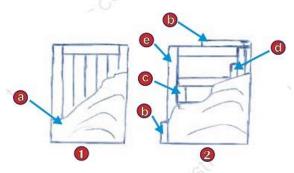


- A. ledge
- B. batten
- C. frame
- D. brace

- 20. Panels are set in grooves in the framing members so that shrinkage and frame movements will \_\_\_\_\_.
- A. because visible cracks that will open up around panels
- B. not cause visible cracks that will open up around panels
- C. keep shrinking occurring in the grooves only
- D. all of the above
- 21. The part of the battened door labelled 'b' is called \_\_\_\_\_.

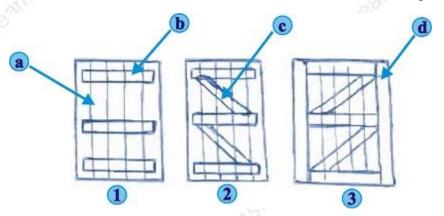


- A. ledge
- B. batten
- C. frame
- D. brace
- 22. The drawing labelled 'a' is called \_\_\_\_\_.



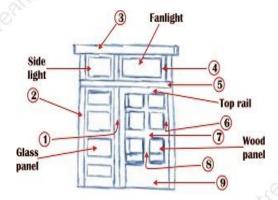
- A. lipping
- B. lock block
- C. hinge block
- D. plywood facing

23. What is the name of the battened door in the drawing labelled '2'?

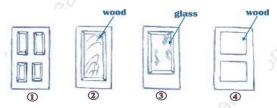


- A. Framed, ledged and braced door
- B. Ledged and braced door
- C. Ledged door
- D. Framed and ledged
- 24. The braces of the battened are fixed so that they run \_\_\_\_ upwards from the hanging side to the closing side of the door.
- A. diagonally
- B. vertically
- C. horizontally
- D. all of the above

25. The part labelled '5' in the diagram is known as the \_\_\_\_\_.

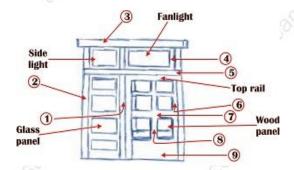


- A. transom
- B. sash
- C. mullion
- D. stile
- 26. Which are named according to the method of construction include \_\_\_\_\_ doors
- A. flush
- B. paneled
- C. match boarded
- D. all of the above
- 27. The drawings are examples of \_\_\_\_\_ doors.

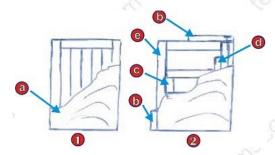


- A. flush
- B. battened
- C. paneled
- D. all of the above
- 28. Types of internal does not include \_\_\_\_\_ doors.

- A. framed
- B. ledged
- C. flush
- D. all of the above
- 29. In the drawing, the part labelled "1" is the \_\_\_\_\_\_

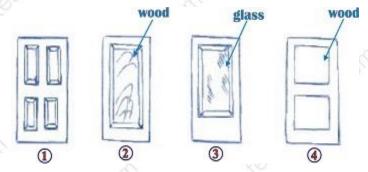


- A. mullion
- B. stile
- C. jamb
- D. muntin
- 30. What is the name of the part labelled 'e'?



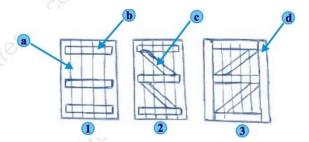
- A. Lock block
- B. Lipping
- C. Hinge block
- D. Stile
- 31. Another name for match boarded door is \_\_\_\_\_ door.

- A. battened
- B. flush
- C. panelled
- D. none of the above
- 32. A quality door must possess all of the following except \_\_\_\_\_.
- A. not meant to serve privacy purpose to the rooms
- B. have strength and stability
- C. possess aesthetics value
- D. should have air tightness and easy to maintain
- 33. The drawing labelled '1' is a type of panelled door called \_\_\_\_\_ panelled door.



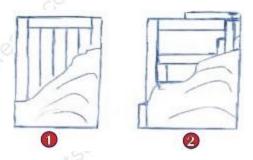
- A. four
- B. two
- C. glazed
- D. one

34. The type of battened or match boarded door in drawing '1' is \_\_\_\_\_ doors.

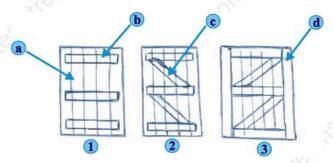


- A. ledged
- B. ledged and braced
- C. framed, ledged and braced
- D. framed panelled
- 35. Which of the following is not named according to the method of hanging?
- A. Folding
- B. Hinged
- C. Glazed
- D. Sliding
- 36. The braces that run diagonally upward is meant to \_\_\_\_\_.
- A. make the door close well
- B. make the door open well
- C. prevent the door from sagging
- D. prevent the door from decaying

37. What type of flush door is in the drawing labelled '2'?

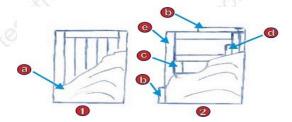


- A. Solid core
- B. Plain
- C. Hollow core
- D. Battened core
- 38. What type of battened door is in the drawing labelled '3'?



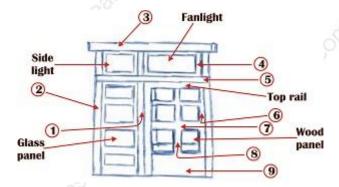
- A. Framed, ledged and braced
- B. Ledged
- C. Ledged and braced
- D. Framed and ledged
- 39. Why are moulding cut on the edges of the stiles and rails around panels?
- A. To improve the appearance
- B. To improve the strength
- C. To prevent warping
- D. All of the above
- 40. The type of most suitable for hanging external edged is \_\_\_\_\_ hinges.
- A. piano

- B. tee
- C. butt
- D. strap
- 41. \_\_\_\_\_ strengthens and stabilizes the batten door.
- A. Batten
- B. Braces
- C. Ledge
- D. Frames
- 42. What is the name of the part labelled 'd'?



- A. Lock block
- B. Lipping
- C. Hinge block
- D. Stile
- 43. Flush door come in two kinds, as \_\_\_\_\_
- A. solid and hollow core
- B. rebated and grooves
- C. single and double
- D. sliding and folding
- 44. Named according to location are \_\_\_\_\_ doors.
- A. hinged and sliding
- B. external and internal

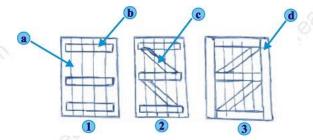
- C. flush and panelled
- D. all of the above
- 45. What is arrow number '9' called?



- A. Stile
- B. Muntin
- C. Bottom rail
- D. Sash
- 46. To reduce the possibility of shrinkage cracks observe \_\_\_\_
- A. avoid the use of large panels
- B. use of plywood
- C. making panels tongued together
- D. all of the above

- 47. Types of external include \_\_\_\_\_ doors.
- A. ledged
- B. ledged and braced
- C. entrance

- D. all of the above
- 48. Advantages of flush over battened and panelled include \_\_\_\_\_
- A. flush enables fire resistance door to be made
- B. flush has higher sound proof
- C. flush has higher airtightness
- D. all of the above
- 49. Functional requirements of a door when open includes \_\_\_\_\_\_.
- A. safe means of access
- B. safe means of egress
- C. safe means of ventilation
- D. all of the above
- 50. The type of door drawn is \_\_\_\_\_ door.



- A. flush
- B. battened
- C. panelled
- D. none of the above
- 51. \_\_\_\_\_ is a solid barrier that is fixed in an opening in a wall to a hing, pivot or slide open and to close it.
- A. Frame
- B. Door

- C. Window
- D. Wood

## **TOPIC: ESTIMATION AND COSTING**

## **DIRECTION:** Choose the correct answer from the lettered options.

1.The table is called \_\_\_\_\_ table.

SNO	MEMBER	QTY	SIZE (mm)	MATERIAL
1	RAIL	2	19x70x580	Abura
2	STILE	2	19x70x1040	Abura
3	TOP RAIL	1	6x580x1040	Plywood
4	LAMINATE	1	600×1060	Extra for triming

- A. working rod
- B. cutting list
- C. estimate
- D. preliminary drawing
- 2. The heading 'size' in estimation table means \_\_\_\_\_
- A. 20 lengths
- B. №20 timber
- C. 20 × 50 × 600mm timber
- D. mahogany timber

3. How much will the owner of the job pay to collect his job according to the estimate in the table?

SNO	ITEM	SIZE	TYPE	QTY	COST UNIT (N)	TOTAL COST(N)
1	WOOD	75x120x1200	MAHOGANY	2	1,000	2,000
2	WOOD	1x50x1200	MAHOGANY	4	500	2,000
3	PLYWOOD	20x550x1150	MAHOGANY FACE	2	1,500	3,000
4	NAILS	(1½)", (2)"	ROUND HEAD WIRE	2 POUNDS	200	400
5	GLUE	SMALL	TOKSON CASEIN	1	200	200
6	SAND PAPER	300 mm	EMERY CLOTH	1	150	150
7	POLISH	2 BOTTLES	LACQUER	2 BOTTLES	400	800
8	TRANSPORTATION	8				500
9	WORKMANSHIP					6,000
10	GRAND TOTAL					15,050

Α	<del>№</del> 9	05	0
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- B. <del>№</del>15,050
- C. <del>№</del>10,050
- D. <del>№</del>13,000

4. During building constr	uction the table	e which ex	plains the	details o	f materials,	the
labour and the quality of	the materials is	s called	·			

- A. bill of quantities
- B. bill of labours
- C. bill of contract
- D. bill of estimations

5. What does 'workmanship' mean?

- A. The type of work to be done
- B. The people required to do the work
- C. The skill needed to do a job
- D. All of the above
- 6. In the table (kitchen table) which of the following is not true?

			F3, 47	
SNO	MEMBER	QTY	SIZE (mm)	MATERIAL
1	RAIL	2	19x70x580	Abura
2	STILE	2	19x70x1040	Abura
3	TOP RAIL	1	6x580x1040	Plywood
4	LAMINATE	1	600×1060	Extra for triming

- A. The rails are two in number of Abura with 19  $\times$  70  $\times$  580mm size
- B. The laminate has the size 600 × 106mm with extra for triming
- C. The top is one, the size is  $600 \times 580 \times 1040$ mm
- D. The stiles are two,  $19 \times 70 \times 104$ mm

7. If the owner decides to undertake the provision of the materials, how much is he supposed to pay the worker?

SNO	ITEM	SIZE	TYPE	QTY	COST UNIT (N)	TOTAL COST( <del>N</del> )
1	WOOD	75x120x1200	MAHOGANY	2	1,000	2,000
2	WOOD	1x50x1200	MAHOGANY	4	500	2,000
3	PLYWOOD	20x550x1150	MAHOGANY FACE	2	1,500	3,000
4	NAILS	(11/2)", (2)"	POLIND HEAD	2 POUNDS	200	400
5	GLUE	SMALL	TOKSON CASEIN	1	200	200
6	SAND PAPER	300 mm	EMERY CLOTH	1	150	150
7	POLISH	2 BOTTLES	LACQUER	2 BOTTLES	400	800
8	TRANSPORTATION					500
9	WORKMANSHIP					6,000
10	GRAND TOTAL					15,050

- A. №6,000
- B. <del>№</del>6,500
- C. <del>№</del>9,050
- D. <del>N</del>15,050
- 8. The working drawing in orthographic drawing is not made in \_\_\_\_\_ angle projection.
- A. first
- B. second
- C. third
- D. first and third

9. From the table, how much should be given to purchase the polish?

SNO	ITEM	SIZE	TYPE	QTY	COST UNIT (N)	TOTAL COST( <del>N</del> )
1	WOOD	75x120x1200	MAHOGANY	2	1,000	2,000
2	WOOD	1x50x1200	MAHOGANY	4	500	2,000
3	(½)" PLYWOOD	20x550x1150	MAHOGANY FACE	2	1,500	3,000
4	NAILS	(1½)", (2)"	ROUND HEAD WIRE	2 POUNDS	200	400
5	GLUE	SMALL	TOKSON CASEIN	1	200	200
6	SAND PAPER	300 mm	EMERY CLOTH	1	150	150
7	POLISH	2 BOTTLES	LACQUER	2 BOTTLES	400	800
8	TRANSPORTATION	is.				500
9	WORKMANSHIP					6,000
10	GRAND TOTAL					15,050

- A. <del>№</del>150
- B. <del>№</del>200
- C. <del>N</del>300
- D. <del>№</del>400
- 10. The rod or working drawing contains \_\_\_\_\_\_.
- A. the name of the article
- B. the scale used for making the drawing
- C. the details of various parts and joints
- D. all of the above
- 11. Costing in estimation means \_\_\_\_\_.
- A. paying money
- B. giving the prices
- C. giving the conditions
- D. sending to market
- 12. The table indicates that \_\_\_\_\_.

SNO	ITEM	SIZE	TYPE	QTY	COST UNIT (N)	TOTAL COST(N)
1	WOOD	75x120x1200	MAHOGANY	2	1,000	2,000
2	WOOD	1x50x1200	MAHOGANY	4	500	2,000
3	PLYWOOD	20x550x1150	MAHOGANY FACE	2	1,500	3,000
4	NAILS	(1½)", (2)"	ROUND HEAD WIRE	2 POUNDS	200	400
5	GLUE	SMALL	TOKSON CASEIN	1	200	200
6	SAND PAPER	300 mm	EMERY CLOTH	1	150	150
7	POLISH	2 BOTTLES	LACQUER	2 BOTTLES	400	800
8	TRANSPORTATION	is.				500
9	WORKMANSHIP					6,000
10	GRAND TOTAL					15,050

- A. mahogany wood of 75 × 120 ×1200mm is needed
- B. mahogany wood of size 75 × 120 × 1200mm at №2000 per unit is needed
- © C. the wood that cost ¥1,000 per unit are four in number
  - D. total cost of all the wood is №2,000
  - 13. The cutting list should include \_\_\_\_\_\_

SNO	MEMBER	QTY	SIZE (mm)	MATERIAL
1	RAIL	2	19x70x580	Abura
2	STILE	2	19x70x1040	Abura
3	TOP RAIL	1	6x580x1040	Plywood
4	LAMINATE	1	600x1060	Extra for triming

- A. quantity
- B. material
- C. member

D - I		11	- 1-	
D. al	i ot	tne	ab	ove

- 14. The quantity in estimation of materials means the \_\_\_\_\_\_
- A. measurement
- B. standard
- C. number
- D. type

15. How much should be given for the purchase of the materials from number 1-7?

SNO	ITEM	SIZE	TYPE	QTY	COST UNIT (N)	TOTAL COST(N)
1	WOOD	75x120x1200	MAHOGANY	2	1,000	2,000
2	WOOD	1x50x1200	MAHOGANY	4	500	2,000
3	PLYWOOD	20x550x1150	MAHOGANY FACE	2	1,500	3,000
4	NAILS	(1½)", (2)"	ROUND HEAD WIRE	2 POUNDS	200	400
5	GLUE	SMALL	TOKSON CASEIN	1	200	200
6	SAND PAPER	300 mm	EMERY CLOTH	1	150	150
7	POLISH	2 BOTTLES	LACQUER	2 BOTTLES	400	800
8	TRANSPORTATION					500
9	WORKMANSHIP					6,000
10	GRAND TOTAL					15,050

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Α.	N	n.	( )	u	Ų,

- B. <del>№</del> 8,550
- C. <del>№</del>9,050
- D. <del>№</del>15,050

16	In esti	mation	table	the	heading	'type'	refers to	)
	000	TI I CI CI CI I	tabio,		110441119	1,00	101010 10	<i>'</i>

- A. 20 lengths of timber
- B. №20.00 timber

- C. 20 × 50 × 600mm timber
- D. mahogany timber
- 17. Estimates are made from full size working drawing called \_\_\_\_\_\_.
- A. rod
- B. board
- C. pictorial
- D. isometric
- 18. In estimation, the cost of the individual window unit will depend on

SNO	ITEM	SIZE	ТҮРЕ	QTY	COST UNIT (N)	TOTAL COST(N)
1	WOOD	75x120x1200	MAHOGANY	2	1,000	2,000
2	WOOD	1x50x1200	MAHOGANY	4	500	2,000
3	(½)" PLYWOOD	20x550x1150	MAHOGANY FACE	2	1,500	3,000
4	NAILS	(11/2)", (2)"	ROUND HEAD WIRE	2 POUNDS	200	400
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6	SAND PAPER	300 mm	EMERY CLOTH	1	150	150
7	POLISH	2 BOTTLES	LACQUER	2 BOTTLES	400	800
8	TRANSPORTATION	8				500
9	WORKMANSHIP					6,000
10	GRAND TOTAL					15,050

- A. style of the window
- B. the material the unit is made from
- C. whether or not it has factory applied finish
- D. all of the above
- 19. Full size drawing are used to prepare the estimate because it contains \_\_\_\_\_\_.

- A. the true shape and form of the job
- B. the true shapes and parts of joints
- C. hidden detail lines and sections
- D. all of the above
- 20. \_\_\_\_\_ is the table containing the summary of the materials needed for a job with little increase in their measurements.
- A. Costing
- B. Estimation
- C. Workmanship
- D. Cutting list
- 21. In the table, the type of nails required for the job is \_\_\_\_\_

SNO	ITEM	SIZE	TYPE	QTY	COST UNIT (N)	TOTAL COST(N)
1	WOOD	75x120x1200	MAHOGANY	2	1,000	2,000
2	WOOD	1x50x1200	MAHOGANY	4	500	2,000
3	(½)" PLYWOOD	20x550x1150	MAHOGANY FACE	2	1,500	3,000
4	NAILS	(11/2)", (2)"	ROUND HEAD WIRE	2 POUNDS	200	400
5	GLUE	SMALL	TOKSON CASEIN	1	200	200
6	SAND PAPER	300 mm	EMERY CLOTH	1	150	150
7	POLISH	2 BOTTLES	LACQUER	2 BOTTLES	400	800
8	TRANSPORTATION					500
9	WORKMANSHIP					6,000
10	GRAND TOTAL	92				15,050

- A. tokson casein
- B. round head wire
- C. emery cloth
- D. lacquer

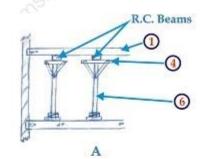
22	the table that include all the type of materials needed for a job with
their measu	ements, quantity, cost and workmanship cost.

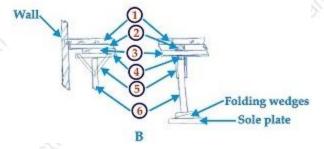
- A. Costing
- B. Estimation
- C. Workmanship
- D. Cutting list

## **TOPIC: FORMWORK AND CENTERING**

## **DIRECTION:** Choose the correct answer from the lettered options.

- 1. Precast concrete is the concrete cast \_\_\_\_\_.
- A. in the place of need
- B. partly outside the place of need
- C. outside the place of need
- D. with rods
- 2. The arrow labelled '4' in drawing 'A and B' shown is called \_\_\_\_\_.





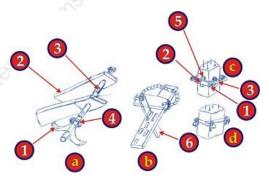
- A. joist
- B. head tree
- C. prop
- D. brace

3. Why must formwork joints be tight fitting?



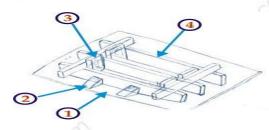
- A. To prevent air escape
- B. To prevent coarse aggregate escape
- C. To prevent liquid concrete escape
- D. To prevent collapse of formwork

5. In the drawing shown the part of the clamp labelled '2' is \_\_\_\_\_.



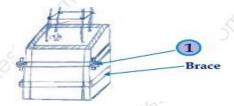
- A. packing/wedges
- B. wing nut
- C. yoke bar
- D. bolt

6. In the drawing shown, the arrow labelled '4' is called \_\_\_\_\_.

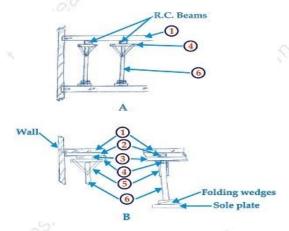


- A. wedge
- B. spacer

- C. shutter
- D. platform board
- 7. The size of the timber props should be \_\_\_\_\_\_.
- A.  $25 \times 50$  mm wide
- B. 50 × 100 mm wide
- C. 25 × 100 mm wide
- D.  $50 \times 300$  mm wide
- 8. What is the type of formwork represented in drawing shown?



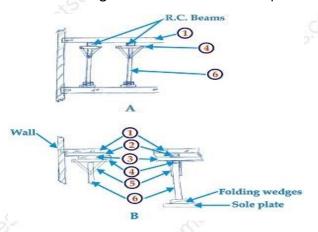
- A. Concrete beams
- B. Concrete fence wall
- C. Concrete slabs
- D. Concrete floor
- 9. In drawing 'A and B' shown, the arrow '5' points to \_\_\_\_\_.



A. head tree

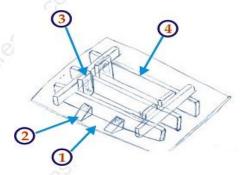
- B. brace
- C. prop
- D. joist

10. In drawing 'A' and 'B' shown, the part labelled '1' is called \_\_\_\_\_.



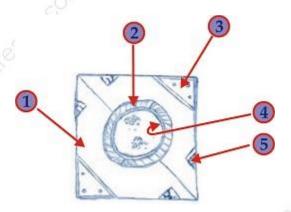
- A. runners
- B. joist
- C. decking
- D. headtree
- 11. Qualities of timbers for formwork are \_\_\_\_\_\_
- A. they are fairly soft and not durable for external work
- B. they retain shape after drying
- C. they are easily worked with
- D. all of the above

12. In the drawing shown, the part labelled '1' is the \_\_\_\_\_\_



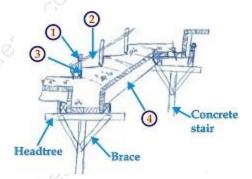
- A. shutter
- B. platform board
- C. spacer
- D. wedge
- 13. Which of the following should not be used as material for formwork?
- A. Metals
- **B. Plastics**
- C. Plywood
- D. None of the above
- 14. For removal of props to slab spanning up to 4.5 m, the minimum time allowed should be \_\_\_\_\_.
- A. 3 days
- B. 7 days
- C. 7 months
- D. 14 days

15. What type of formwork is shown in the diagram?

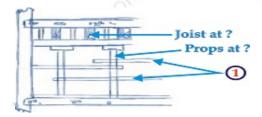


- A. Formwork for wall
- B. Formwork for circular column
- C. Formwork for lintel
- D. Formwork for slab
- 16. The timber for head tree should measure \_\_\_\_\_ wide.
- A. 25 × 50 mm
- B. 25 × 50 mm
- C. 50 × 100 mm
- D. 50 × 300 mm
- 17. The minimum time allowed for the removal of props to beam spanning over 6m should be \_\_\_\_\_ days.
- A. 2
- B. 7
- C. 14
- D. 21

18. In the drawing shown, the arrow labelled '1' is the \_\_\_\_\_

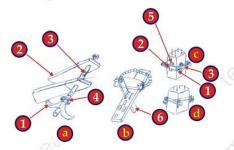


- A. cleat
- B. joist
- C. stringer board
- D. riser board
- 19. A minimum period for removal of slabs (i.e. props left under) is \_\_\_\_\_ days.
- A. 3
  - B. 10
  - C. 14
  - D. 21
  - 20. In the drawing shown, the part labelled '1' is the \_\_\_\_\_.



- A. head trees
- B. sole plates
- C. ties
- D. stretchers
- 21. The members of formwork for beams should be planed when smooth surface finish is required, except \_\_\_\_\_.

- A. prop
- B. stretcher
- C. boarding
- D. all of the above
- 22. The drawing "c" and "d" in the diagram shown illustrates the uses of \_\_\_\_\_.



- A. modern clamps only
- B. traditional and modern clamps
- C. traditional yokes only
- D. ancient and traditional yokes
- 23. The method of removing formwork include \_\_\_\_\_
- A. First remove vertical members, walls, columns, sides etc.

Second, remove soffit of slabs etc.

Third, remove soffit of beams, girders etc.

B. First, remove soffit of beam, girders etc.

Second, remove soffit of slabs etc.

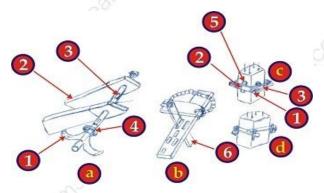
Third, remove vertical members, walls, column sided etc.

C. First, remove soffit of slabs etc.

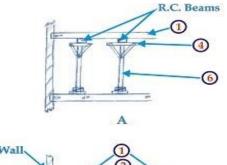
Second, remove vertical members, walls etc.

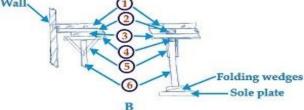
Third, remove soffit of beams, girders etc.

- D. all of the above
- 24. In the drawing shown, the arrow '6' is a yoke part known as \_\_\_\_\_.



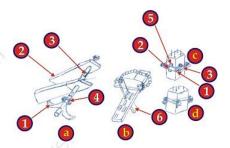
- A. packing or wedge
- B. wing bolt nut
- C. bolt washer
- D. bar chain
- 25. In drawing 'A and B' shown, the part labelled '6' is the \_\_\_\_\_.





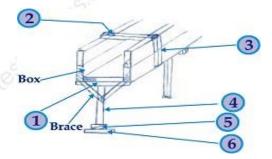
- A. prop
- B. runners
- C. joist

- D. brace
- 26. Plywood used for formwork should \_\_\_\_\_\_.
- A. resist weather
- B. not peel
- C. not be very strong but durable for easy construction
- D. be very strong and durable for easy construction
- 27. There are two methods of concrete cast in formwork namely \_\_\_\_\_
- A. pre-cast and post-cast
- B. pre-cast and cast-in situ
- C. cast-in situ and wet cast
- D. wet cast and dry cast
- 28. In the drawing shown, the traditional yoke is \_\_\_\_\_.



- A. "a'" and "b"
- B. "b" and "d"
- C. "a" and "c"
- D. "c" and "d"
- 29. Formwork is not used to cast which of the following?
- A. Wall plates
- B. Columns and beams
- C. Concrete facial boards

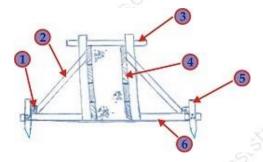
- D. Bridges
- 30. The minimum period allowed for the striking of beams soffit (probs left under) is
- A. 2 days
- B. 3 days
- C. 7 days
- D. 7 months
- 31. The drawing drawn illustrates what type of formwork?



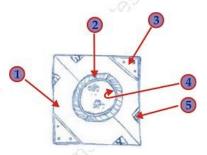
- A. Formwork for columns
- B. Formwork for beams or lintels
- C. Formwork for floor slabs
- D. Formwork for the wall casting

- 32. Qualities of a good formwork include \_\_\_\_\_\_.
- A. it must be strong enough to support the wet concrete
- B. it must remain rigid while ramming, tamping and vibration
- C. it must be designed to allow for easy removal

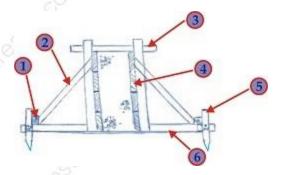
- D. all of the above
- 33. What is the name of the part labelled '4' in diagram shown?



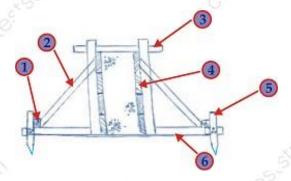
- A. bracing
- B. peg
- C. stretcher
- D. boarding
- 34. The F.C. column in the part labelled '3' of the drawing shown is \_\_\_\_\_.



- A. collar
- B. cleat
- C. sheeting
- D. plywood lining
- 35. The name of the part labelled '5' in the drawing shown is \_\_\_\_\_.

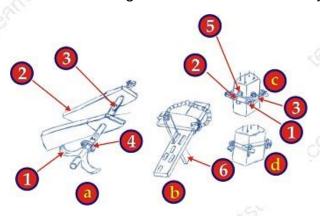


- A. packing
- B. peg
- C. stretcher
- D. sole plate
- 36. In the drawing shown, the number '2' represents \_\_\_\_\_.



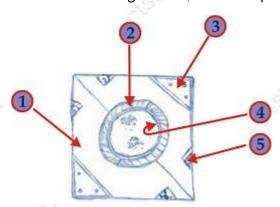
- A. bracing
- B. peg
- C. stretcher
- D. boarding

37. In the drawing shown, the arrow '5' is a yoke part known as \_\_\_\_\_.



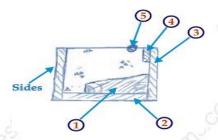
- A. packing or wedge
- B. wing bolt nut
- C. bolt washer
- D. bar chain

38. In the drawing shown, arrow '2' points at \_\_\_\_\_\_.

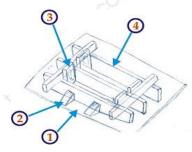


- A. collar
- B. cleat
- C. sheeting
- D. lining

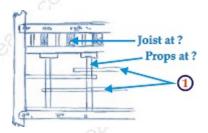
- 40. The easy and gradual removal of formwork after concrete has hardened is called
- A. demolishing
- B. striking
- C. shuttering
- D. vibrating
- 41. In the sill mould in the drawing shown, number '4' is called inserted piece \_\_\_\_\_\_.



- A. to form weathering
- B. to form throating
- C. attached to sides to form return
- D. attached to sides to form rendering
- 42. The drawing shown has the part labelled '3' called \_\_\_\_\_.

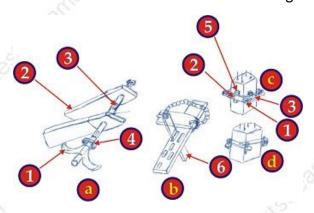


- A. wedge
- B. spacer
- C. shutter
- D. platform board
- 44. In the drawing shown, the joists is built at \_\_\_\_\_ mm centres



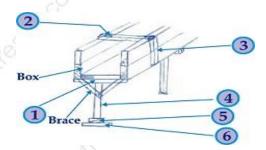
- A. 100
- B. 200
- C. 300
- D. 600

45. The arrow labelled '1' in the drawing shown is called \_\_\_\_\_.

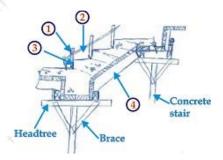


- A. packing/wedges
- B. wing nut
- C. yoke bar
- D. bolt

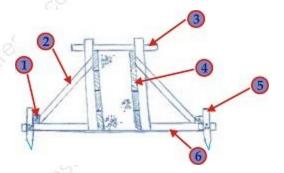
46. In the drawing shown, the number '3' is known as \_\_\_\_\_.



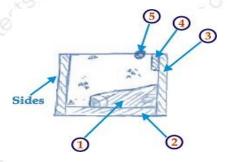
- A. headtree
- B. stretcher
- C. cleat
- D. prop
- 47. Why should surface of shuttering be covered with paper, oil or soft soap?
- A. To prevent the concrete sticking to the boarding.
- B. To prevent the concrete from setting poorly
- C. To make the concrete to be smooth
- D. All of the above
- 48. The arrow '3' of the drawing shown, the stair's formwork is \_\_\_\_\_.



- A. cleat
- B. joist
- C. riser board
- D. stringer board
- 49. The part labelled '1' in the diagram shown is called \_\_\_\_\_.

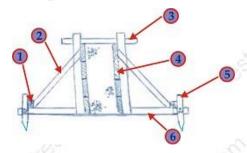


- A. stretcher
- B. bracing
- C. boarding
- D. runner
- 50. In the drawing shown, the sill mould labelled '1' is the \_\_\_\_\_.

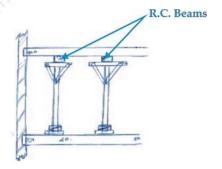


- A. inserted piece to form weathering
- B. inserted piece to form throating
- C. sides
- D. pallet
- 51. West Africa timber suitable for formwork include \_\_\_\_\_\_.
- A. afara
- B. agbu
- C. achi
- D. all of the above
- 52. Materials used for formwork should include \_\_\_\_\_\_.

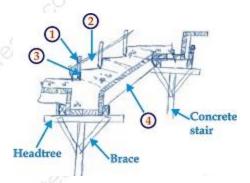
- A. plywood
- B. softwood
- C. hardwood
- D. all of the above
- 53. The arrow '6' is pointing at \_\_\_\_ in the drawing shown.



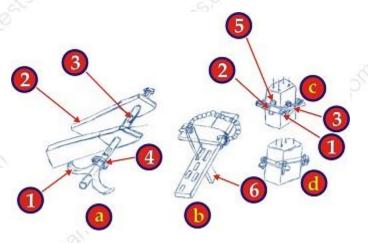
- A. runners
- B. stretcher
- C. sole plate
- D. boarding
- 54. The drawing shown illustrates \_\_\_\_\_.



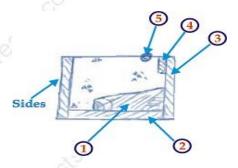
- A. formwork for precast concrete floor
- B. formwork for concrete floors
- C. concrete floor formwork showing details of props, joist and beam casing
- D. formwork for concrete floor showing props tied at intervals
- 55. In the drawing shown, the arrow '2' points at \_\_\_\_\_.



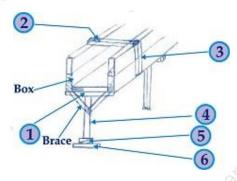
- A. cleat
- B. joist
- C. stringer board
- D. riser board
- 56. The drawing shown illustrates types of \_\_\_\_\_.



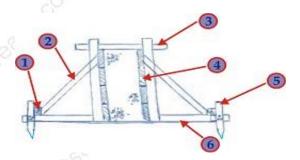
- A. gate yokes
- B. safety anchors
- C. column clamps
- D. sash clamps
- 57. In the drawing shown, number '5' is inserted piece \_\_\_\_\_.



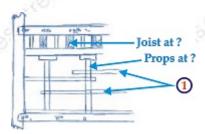
- A. to form weathering
- B. to form throating
- C. attached to side to form return
- D. all of the above
- 58. Which of the following is not included in the construction of formwork?
- A. Propping and centering
- B. Shuttering
- C. Plastering the body
- D. Cleaning and surface treatment
- 59. In the drawing drawn, the number '1' points at \_\_\_\_\_\_.



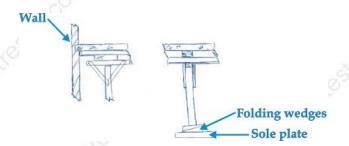
- A. sole plate
- B. stretcher
- C. head tree
- D. cleat
- 60. In the drawing shown, the number '3' in the formwork is called \_\_\_\_\_.



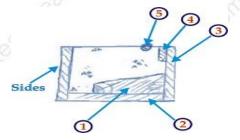
- A. bracing
- B. peg
- C. stretcher
- D. boarding
- 61. In the drawing shown, the props is built at \_\_\_\_\_ mm centres



- A. 50 150
- B. 100 300
- C. 100 1200
- D. 100 600
- 62. The effect of liquid concrete of forms include \_\_\_\_\_.
- A. it exercises pressure proportional to the depth of the concrete
- B. it caters for the liquid concrete on forms
- C. it makes cement agents to leak if joist is not tight
- D. all of the above
- 63. The drawing shown is a formwork which illustrates formwork for \_\_\_\_\_.

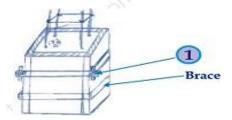


- A. precast concrete floor
- B. concrete floor
- C. concrete stairs
- D. illustrating props, joist and beam details
- 64. In the drawing shown, the arrow labelled '2' is \_\_\_\_\_.

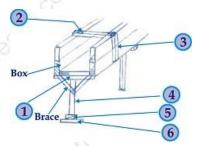


- A. inserted piece to form throating
- B. pallet
- C. inserted piece to form weathering
- D. inserted piece attached to side to form return
- 65. Internal surface treatment of formwork includes \_\_\_\_\_\_
- A. clean form of any rubbish
- B. wet the surface to be in contact with concrete with water
- C. surface of shuttering to be papered oiled or with soft soap
- D. all of the above
- 66. For floor slabs the timber should be \_\_\_\_\_ wide
- A. 25 × 25 mm

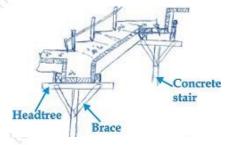
- B. 25 × 50 mm
- C. 25 × 100 mm
- D. 25 × 250 mm
- 67. For removal of probs to slabs over 4.5m, the minimum time allowed should be \_\_\_\_\_ days.
  - A. 3
- B. 7
- C. 14
- D. 21
- 68. The size of the timber ledger for formwork is \_\_\_\_\_
- A. 25 × 50 mm wide
  - B.  $25 \times 100$  mm wide
  - $C.50 \times 100 \text{ mm wide}$
  - D. 25 × 150 mm wide
  - 69. In the drawing shown, the part labelled '1' is called \_\_\_\_\_.



- A. ties
- B. clamp
- C. wedges
- D. props
- 70. What name is the part labelled '5' in the drawing shown called?

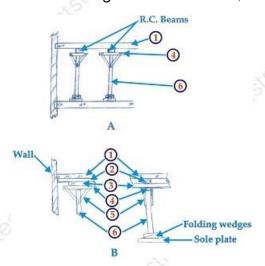


- A. Folding wedges
- B. Prop
- C. Sole plate
- D. Headtree
- 71. The line of ties placed at the bottom and middle of the props is to \_\_\_\_\_\_.
- A. prevent any movement of the formwork
- B. prevent quick setting of the concrete
- C. allow the carpenter to climb the formwork
- D. all of the above
- 71. The line of ties placed at the bottom and middle of the props is to \_\_\_\_\_\_

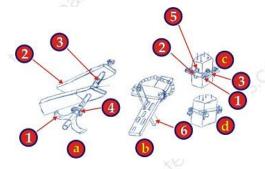


- A. prevent any movement of the formwork
- B. prevent quick setting of the concrete
- C. allow the carpenter to climb the formwork
- D. all of the above
- 73. The characteristics of timber for formwork does not include \_\_\_\_\_.
- A. moderately light weight

- B. seasoned enough not to soak-dry concrete
- C. hard enough not to take in nails easily
- D. all of the above
- 74. In drawing 'A' and 'B' shown, the part labelled '2' is called \_\_\_\_\_.

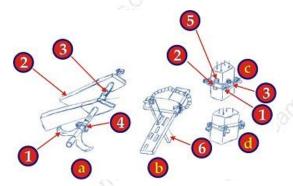


- A. runners
- B. joist
- C. decking
- D. headtree
- 75. The arrow '4' in the drawing shown is pointing at the \_\_\_\_\_.

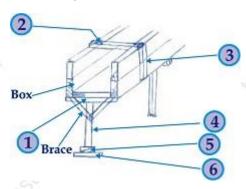


- A. bolt washer
- B. bolt key
- C. bolt nut

- D. all of the above
- 76. The modern type of clamps as shown in the diagram is \_\_\_\_\_.

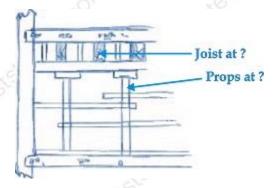


- A. "a" and "b"
- B. "b" and "d"
- C. "a" and "c"
- D. "c" and "d"
- 77. What part of the formwork in the drawing shown is '4'?



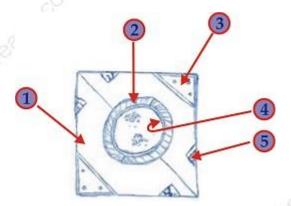
- A. Headtree
- B. Cleat
- C. Folding wedges
- D. Prop
- 78. The size of timber beam for formwork is \_\_\_\_\_ wide.
- A. 25 × 250 mm

- B. 25 × 300 mm
- C. 25 × 360 mm
- D. 25 × 600 mm
- 79. The basic factors governing the stripping time for formwork include \_\_\_\_\_\_.
- A. types of cement used
- B. types of structure
- C. mixture of concrete
- D. all of the above
- 80. The formwork in the diagram drawn shows \_\_\_\_\_.

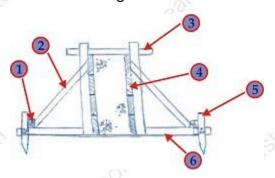


- A. props tied at intervals
- B. props and beam details
- C. mould for precast concrete slab
- D. mould for precast sill

81. What is the name of the part labelled '5' in the drawing shown?

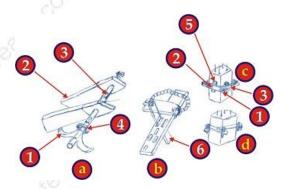


- A. Collar
- B. Cleat
- C. Bolt
- D. Lining
- 82. The drawing shown illustrates which type of formwork?

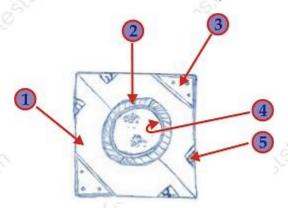


- A. Formwork for lintel
- B. Formwork for wall
- C. Formwork for circular column
- D. All of the above

83. In the drawing shown, the part of the clamp labelled '3' is called \_\_\_\_\_.



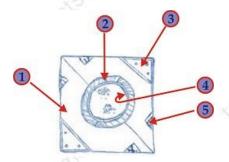
- A. wedges
- B. wing nut
- C. yoke
- D. bolt
- 84. What is the name of the part labelled '4' in the drawing shown?



- A. Collar
- B. Cleat
- C. Bolt
- D. Plywood lining
- 85. Consolidation of concrete in the formwork is done by all except \_\_\_\_\_.
- A. rubbing

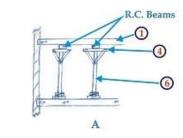
- B. ramming
- C. tamping
- D. vibration

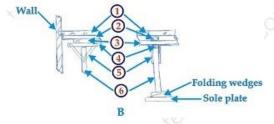
86. In the drawing shown, the part labelled '1' is called \_\_\_\_\_.



- A. collar
- B. cleat
- C. bolt
- D. lining

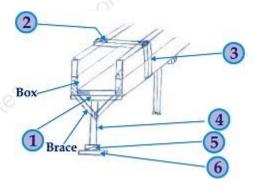
87. The part labelled '3' of drawing 'A and B' shown is called \_\_\_\_\_.





- A. brace
- B. decking
- C. headtree

- D. runners
- 88. 'Cast-in-situ' concrete is one cast \_\_\_\_\_\_
- A. in the place of need
- B. partly in the place of need
- C. outside the place of need
- D. with the reinforced rods
- 89. The number '2' in the drawing shown is a part called \_\_\_\_\_.



- A. prop
- B. stretcher
- C. headtree
- D. cleat

90. The formwork in the	drawing shown is	for	
A. concrete floor			
B. concrete lintel			
C. concrete sill			
D. all of the above			
91. Formwork is used in	the casting of con	crete for	
A. slabs			
B. lintels			
C. stairs			
D. all of the above			
92. A minimum period for sides of beams is		vork parts like walls,	columns and vertical
A. 2			
B. 7			
C. 14			
D. 21			
93 is the tempo	orary construction	used in casting reir	force concrete

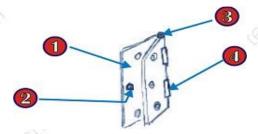
structure.

- A. Brickwork
- B. Cabinetwork
- C. Formwork
- D. Framework

## **TOPIC: HINGES**

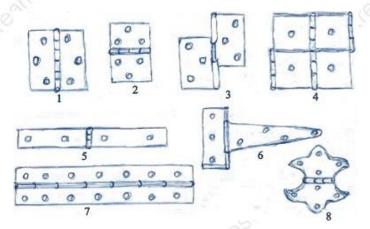
## **DIRECTION:** Choose the correct answer from the lettered options.

- 1. The large sizes of used in joinery are made of \_\_\_\_\_.
- A. brass
- B. steel
- C. japanned
- D. bronze
- 2. Types of include \_\_\_\_\_
- A. butt
- B. back flap
- C. strap
- D. all of the above
- 3. The arrow '3' in the drawing is called \_\_\_\_\_.

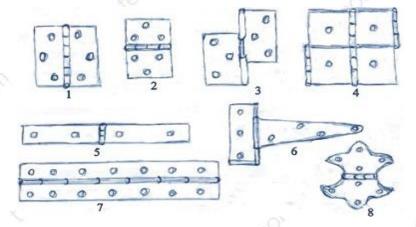


- A. knuckle
- B. pin
- C. flange
- D. hanging hole

4. The labelled '1' is \_\_\_\_ hinge.

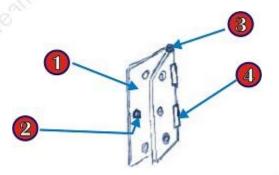


- A. strap
- B. butt
- C. back flap
- D. double acting
- 5. The labelled '3' in the drawing is called \_\_\_\_\_\_.

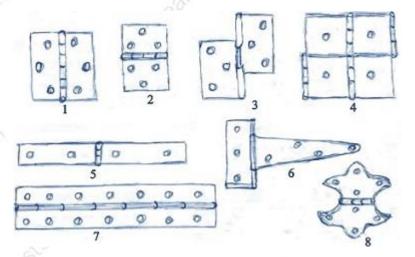


- A. rising butt
- B. strap hinge
- C. double acting
- D. butt hinge

6. The part with arrow '4' is called \_\_\_\_\_\_

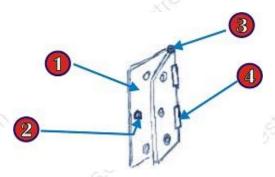


- A. flange
- B. pin
- C. knuckle
- D. screw hole
- 7. In the diagram, the hinge labelled '5' is called \_\_\_\_\_ hinge.



- A. butt
- B. strap
- C. rising butt
- D. tee

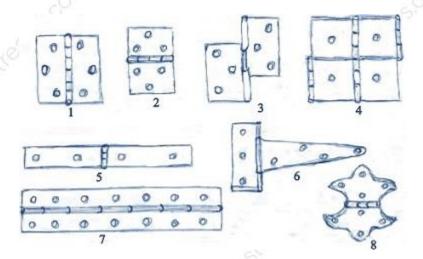
- 8. Back flap and rising butt are made of \_\_\_\_\_.
- A. steel, brass and nylon
- B. steel, japanned and bronze
- C. brass, nylon and silver
- D. steel, nylon and silver
- 9. Why should the cutting for the hinge be equal to both the lid and crease of a box?
- A. So that both flanges flushes with the surfaces
- B. So that screws can enter equally too
- C. So that the cutting will be neat
- D. All of the above
- 10. The drawing represents \_\_\_\_\_



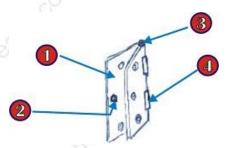
- A. French catch
- B. clips
- C. hinge
- D. corner brackets

11. The double acting are made of plated \_\_\_\_\_\_.

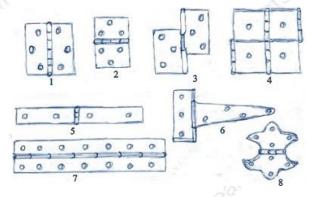
A. brass		
B. nylon		
C. steel		
D. japanned		
12 is suitable	e for external e.g. sheds and gates.	
A. Tee		
B. Back flap		
C. Strap		
D. Double acting		
anno		
13 are reces	ssed into wood and used for table top flaps.	
A. Butt	alific	
B. Back flap		
C. Strap		
D. Tee		
14. Which of the foll	lowing is used on to raise it over floor coverings?	
A. Tee		
B. Strap		
C. Rising butt		
D. Double acting		
	XOS XOS	
15. The labelled '4' is	is called	



- A. rising butt
- B. strap
- C. double acting
- D. piano hinge
- 16. Which of the following is not used for making hinges?
- A. Brass
- B. Steel
- C. Aluminum
- D. Black japanned
- 17. Which of the following is not a type of hinges?
- A. "L"
- B. "T"
- C. Double acting
- D. Piano
- 18. The part with the arrow head '2' is pointing to \_\_\_\_\_.



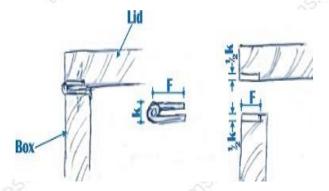
- A. knuckle
- B. pin
- C. flange
- D. hanging hole
- 19. The small sizes butt used for furniture are made of \_\_\_\_\_\_
- A. nylon
- B. steel
- C. brass
- D. japanned
- 20. The hinge labelled '6' in the diagram is known as \_\_\_\_\_.



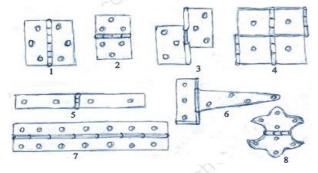
- A. tee
- B. butt
- C. flap
- D. strap
- 21. For folding screens which allow for 360°, use \_\_\_\_\_ hinges.

A. butt			
B. tee			
C. rising			
D. double acting			
22. Which type of is	s used where the s	surface top fixing is limit	ed?
A. Tee hinge			
B. Butt hinge			
C. Rising butt hing	je		
D. Strap hinge			
23. The common ca	auses of hinge bind	ding are	
A. cutting the thick	kness of the hinge	on one side	
B. using chisel to p	oave lines		
C. cutting hinge re	cesses too deep a	and screw heads projec	ting
D. cutting hinge re	cesses to shallow		
24 are used	d for and which are	e usually recessed into	the wood.
A. Tee			
B. Back flap			
C. Butt			
D. Strap			
	×62		
25. The type of long	g hinge used for be	ox lid fall-fronts, and or	particle board is
hinge.			

- A. piano or continuous
- B. double acting
- C. strap
- D. back flap
- 26. The diagram demonstrates \_\_\_\_\_.

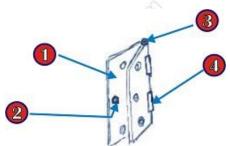


- A. marking position of
- B. marking position of staples
- C. marking and squaring the lid with the box
- D. assembling frames for butt joint
- 27. The hinge labelled '2' is called \_\_\_\_\_ hinge.

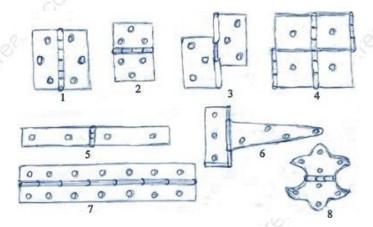


- A. strap
- B. butt
- C. back flap
- D. piano

28. In the diagram, the part labelled '1' is called \_\_\_\_\_.



- A. knuckle
- B. pin
- C. flange
- D. hanging hole
- 29. Tee is made of \_\_\_\_\_.
- A. brass
- B. japanned
- C. steel
- D. nylon
- 30. the most suitable used where beauty is required, e.g. flush of kitchen, bathroom cabinets, is \_\_\_\_\_ hinge.
- A. piano
- B. double
- C. ornamental
- D. strap
- 31. Which of the following is a piano hinge?



- A. 5
- B. 6
- C. 7
- D. 8

32. Which of the hinge in the diagram is ornamental hinge?

- A. "5"
- B. "6"
- C. "7"
- D. "8"

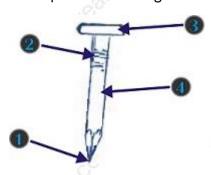
33. Fitting (metal) fixed between door and door frame or cabinet sides to keep the door swinging for opening and closing is called \_\_\_\_\_.

- A. cabinet nails
- B. brackets
- C. hinges
- D. stays

## **TOPIC: IRONMONGERY (NAILS)**

## **DIRECTION:** Choose the correct answer from the lettered options.

1. The part of the diagram labelled '1' is called \_\_\_\_\_.



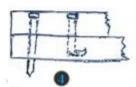
- A. point
- B. barbs
- C. shank
- D. head

2. Drawing number 1 shows what type of nailing?



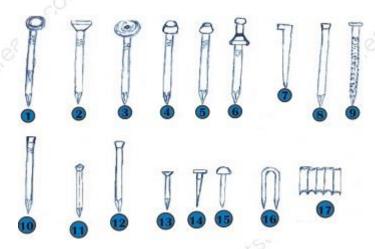






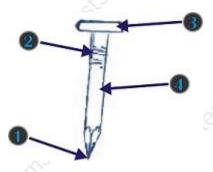
- A. Parallel nailing
- B. Dovetail nailing
- C. Opposite nailing
- D. All of the above
- 3. If nails keep bending on job, try \_\_\_\_\_.

A. to remove all traces	s of glue, oil or di	rt from face of hammer	
B. to rub the hammer's	s face on fine gla	ass paper	
C. dip the point of nai	l in wax		
D. all of the above			
4. Why should nails be	driven below the	e surface of the job and w	vith nail punch?
		or planed without touchi	•
		or stain the surface with	_
		cealed and with a matchin	100
D. All of the above	,	ams	*05 <sup>17</sup>
B. 7 th of the above			
5. The tack nails are ge	anarally used for		
A. fixing ornamental pl		•	
B. fixing fibre-cement	sheets and slate	es	
C. to secure thin mate	rials and fabrics	to wood	
D. fixing sheet metals,	roofing felts and	l leather	
6. When it is required t fitting is	o lock a door fro	om inside and outside, fro	m one side the right
A. bolts			
B. locks			
C. hurk			
D. stays			
×			
7. Which nail is masonr	y nail?		



- A. "5"
- B. "6"
- C. "7"
- D. "8"

8. Which part of the diagram is shown by the arrow '4'?

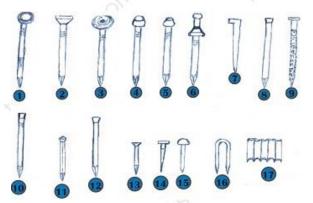


- A. Head
- B. Barbs
- C. Shank
- D. Point

9. In the diagram, the drawing labelled 13, 14 and 15 are called \_\_\_\_\_.



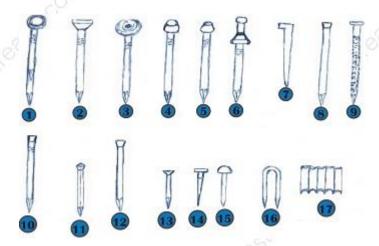
- A. staple pins
- B. tack nails
- C. panel pins
- D. fasteners
- 10. When it is required to keep a door locked from inside without a lock, use \_\_\_\_\_\_
- A. bolts
  - B. stays
  - C. spanner
  - D. screws
- 11. The drawing labelled '7' is called \_\_\_\_\_.



- A. wall board
- B. floor board
- C. hard board

D. panel pin		
12. Naming nails a	ccording to uses include nails.	
A. floor board		
B. masonry		
C. upholstery		
D. all of the above	e and the second	
	10°	-
		-
		0
13. The part of the	e diagram labelled '2' points at	<b>D</b>
	diagram labelled 2 points at	CO).
A. point		
B. barbs		
C. head		
D. shanks		
14. When nailing a the thickness of the	cross the grain, their length should not be less t he top piece.	han times
A. 1 <sup>1</sup> /2		
B. 2 <sup>1</sup> /2		
C. 5		
D. 10		
15. Masonry nails a	are used to	
	concrete or masonry walls	
B. TIX Joinery wner	e extra holding strength is required	

C. fix plaster boards sheeting		
D. general building construction		
16. What is galvanized nails?		
A. Nails that are zinc coated to pr	revent rust and wear	
B. Nails that is painted for beauty	, 200,	
C. Nails that are very long for nail	ling thick pieces	
D. Nails that have no coating at a	The said	
17. Wiggle nail is also known as		
A. zinc nail		
B. diamond nail		
C. corrugated box fastener		
D. veneer nail		
18. When nailing end grain, the len	ngth of nails projecting down the	top should not be
less than times.		
A. 1 - 1 <sup>1</sup> /2		
B. 2		
C. 3 - 3 <sup>1</sup> /2		
D. 5 - 10		
19. Which nail is annular nail?		



- A. "10"
- B. "11"
- C. "8"
- D. "9"

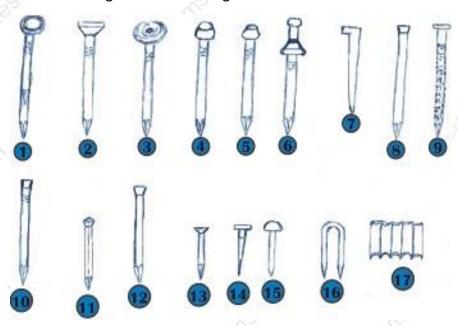
20. What type of nail is drawn in number 2?



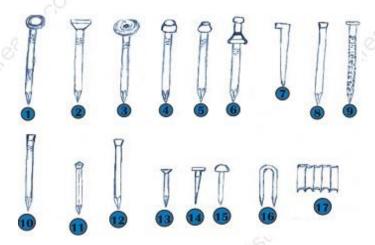
- A. Panel pin
- B. Bullet head
- C. Spring head
- D. Wall board

21. Nails exposed to corrosion are usually \_\_\_\_\_.

- A. painted
- B. galvanized
- C. polished
- D. made thicker
- 22. Nails to be used in contact with water should be made from \_\_\_\_\_.
- A. Copper
- B. Brass
- C. Aluminum
- D. All of the above
- 23. In the diagram the drawing labelled '6' is called \_\_\_\_\_.

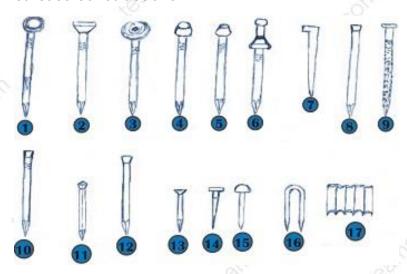


- A. duplex nail
- B. masonry nails
- C. annular nail
- D. floor board
- 24. What type of nail is drawn in number 1?



- A. Diamond head
- B. Flat head
- C. Spring head
- D. Wall board

25. Which nail in the diagram is used on the surface of a widening joint and framed carcase constructions?

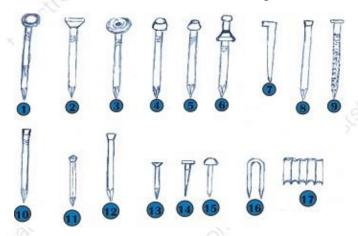


- A. Panel pin
- B. Lost head
- C. Wiggle nail
- D. Bullet head

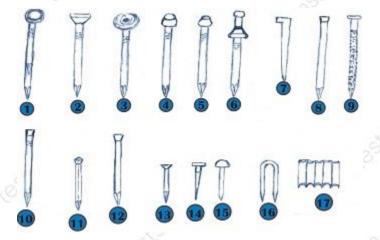
- 26. \_\_\_\_\_ are parts of ironmongery used to fix member together, it has the shanks threaded.
- A. Stays
- B. Screws
- C. Nails
- D. spanner
- 27. What action is taking place in the diagram shown?



- A. Using pincer to withdraw nail
- B. Using crowbar to withdraw nail
- C. Using pincers to withdraw a nail
- D. Driving in nail with pincers
- 28. What is the name of the drawing labelled '4'?



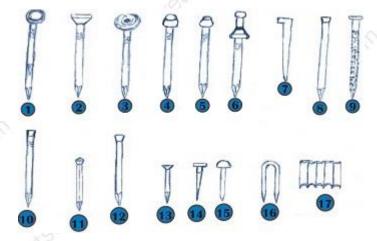
- A. Lost head
- B. Bullet head (oval wire)
- C. Spring head (roofing nail)
- D. Diamond
- 29. What is the name of the drawing labelled '5'?



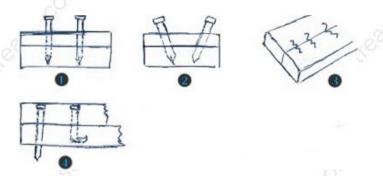
- A. Lost head
- B. Hardboard
- C. Diamond head
- D. Round wire
- 30. Often nails bend while being driven because of all these reasons except \_\_\_\_\_.
- A. wood is tough for nail to penetrate
- B. hammer glances off the nail head
- C. hammer is newly bought
- D. hammer has worn head and much heavier than nail

31. Naming nails according to the head does not include \_\_\_\_\_ head.

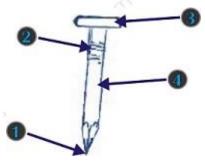
- A. diamond
- B. spring
- C. square
- D. flat
- 32. \_\_\_\_\_ refers to practice and use of steel or metal fitting and fixings or materials used in furniture or construction work.
- A. Steel fittings
- B. Ironmongery
- C. hardware
- D. Metal fittings
- 33. Number 11 is what type of nail?



- A. Lost head
- B. Panel pin
- C. Hardboard
- D. Spring head
- 34. Which of the drawings shows wiggle nails used for widening joint?



- A."1"
- B. "2"
- C. "3"
- D. "4"
- 35. Which of the following is not true to the holding power of nails?
- A. If nails project through both pieces and is clinched along the grain
- B. Nails with thin flat heads have greater holding power
- C. Nails driven obliquely or dovetailed have greater holding power
- D. If nails are cement coated there is greater holding power
- 36. What part is arrowed '3' in the diagram?



- A. Point
- B. Shank
- C. Barbs
- D. Head
- 37. The drawing labelled '3' is called \_\_\_\_\_



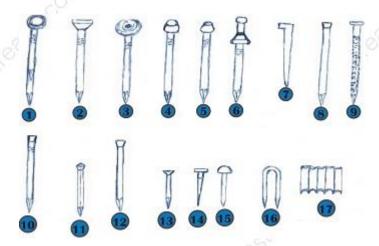
- A. spring head (roofing)
- B. bullet head (oval wire)
- C. diamond
- D. floor board
- 38. Nails and screws are bought according to \_\_\_\_\_.
- A. the sizes
- B. shapes
- C. materials
- D. all of the above
- 39. Which of the nails is called lost head?



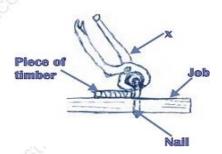
A. "10"

В. "9"		
C. "8"		
D. "7"		
o dilli		
40. A stay is used to		
A. close a window compl	letely	
B. open a window compl	letely	
C. open or close a windo	ow half way	
D. open or close a windo	ow completely	
41. Upholstery nails are u	ised for	
A. fixing fibre cement she	eets and slates	
B. fixing general building	construction	
C. fixing sheet metals, ro	oofing felts and leather	
D. fixing upholstery mate	erials to wood frames	
42. Nails are generally na	amed according to	
A. material and uses		
B. shape of head and us	ses	
C. shape of head and co	olour	
D. colour and material		

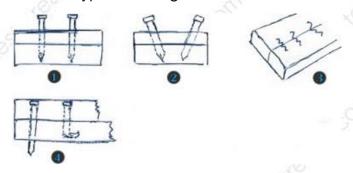
43. Which drawing is in the diagram number 12?



- A. Lost head
- B. Panel pin
- C. Floor board
- D. Fastener
- 44. The bullet head and lost head is used for \_\_\_\_\_\_
- A. fixing corrugated roofing and wall cladding
- B. general building constructions
- C. fixing wall boards and hardboards
- D. temporary construction
- 45. The ironmongery materials used to hang and are called \_\_\_\_\_.
- A. bolts
- B. nails
- C. screws
- D. hinges
- 46. What is the importance of the piece of timber below the pincers?

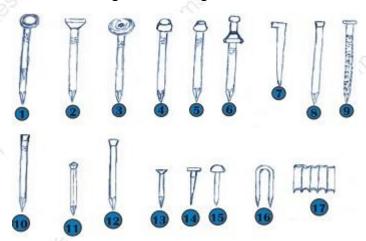


- A. To prevent the pincers saw from cracking
- B. To prevent pincer bruising the job's surface
- C. Used to straighten the nail
- D. The pincers cannot work without it
- 47. What type of nailing is in number 2?



- A. Parallel nailing
- B. Dovetail nailing
- C. Opposite nailing
- D. Diagonal nailing
- 48. Nails are made from all except \_\_\_\_\_.
- A. zinc
- B. copper
- C. silicon bronze
- D. aluminum
- 49. \_\_\_\_\_ are ironmongery used to fix members together but the shank is not threaded.

- A. Stays
- B. Screws
- C. Nails
- D. Hinges
- 50. Which of the following is not a type of nail?
- A. Masonry nail
- B. Staple pin
- C. Furniture nail
- D. Annular nails
- 51. The drawings in the diagram shows \_\_\_\_\_.



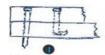
- A. types of wire nails
- B. types of staple pins
- C. types of nails
- D. all of the above
- 52. When ordering nails, state \_\_\_\_\_.
- A. quantity, metal, type, coating and size

- B. quantity, type, coating and size
- C. quantity, type and size only
- D. type and size only
- 53. Types of nails include \_\_\_\_\_.
- A. annular nails
- B. panel nails
- C. wire nails
- D. all of the above
- 54. The flat head (round wire nail) is used for \_\_\_\_\_
- A. general and packing construction and soft timber framing
- B. general building constructions
- C. fixing wall boards and hardboards
- D. temporary construction e.g concrete formwork
- 55. Which of the following in the diagram represents a nail being clinched over?









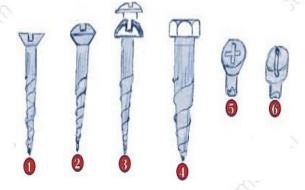
- A. "1"
- B. "2"
- C. "3"
- D. "4"
- 56. Which of the following is true of the holding power of nails?
- A. Holding power depend on the pressure of the wood fibres against the shank
- B. Nails hold better when driven across the grain than along the grain

C. Square rians with twisted s	sharik have greater holding power
D. All of the above	
57. Ironmongery include the f	ollowing materials except
A. chisel	
B. nails	
C.	
Dogram	

## **TOPIC: IRONMONGERY (SCREWS)**

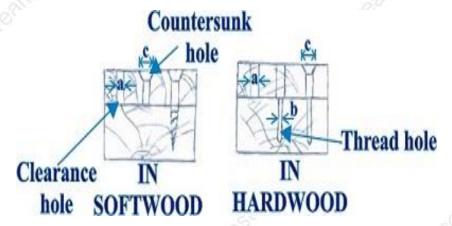
## **DIRECTION:** Choose the correct answer from the lettered options.

- 1. Why is screw provided with slot on the head?
- A. To give it a special design
- B. To take in the screw driver
- C. To collect dirt from the head
- D. All of the above
- 2. Wood screws are mostly made of \_\_\_\_\_
- A. mild steel
- B. copper
- C. brass
- D. all of the above
- 3. In the diagram shown, what is the name of the screw labelled '4'?



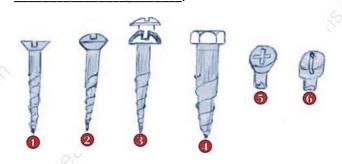
- A. Countersunk head
- B. Round head
- C. Oval head
- D. Hexagonal head

4. In the diagram, "a" (clearance hole) should be \_\_\_\_\_\_.



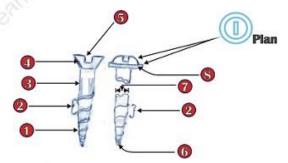
- A. slightly more than diameter of shank
- B. slightly less than diameter of shank
- C. equal to the diameter of shank
- D. half the diameter of head

5. In the diagram shown, the head of the screw labelled '5' is fixed with



- A. flat screw driver
- B. cross screw driver
- C. star screw driver
- D. square screw driver

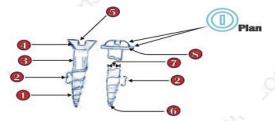
## 6. Which arrow points at the gauge?



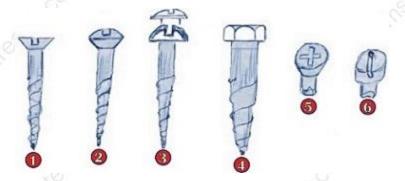
- A. "9"
- B. "6"
- C. "7"
- D. "8"
- 7. Screw cups are used to cover screws where screws require \_\_\_\_\_
- A. are permanently driven
- B. frequent removal and appearance
- C. that soft wood are screwed with particle boards
- D. all of the above
- 8. The screw needed to fix metal to wood where both strength and ornamentation is required is called \_\_\_\_\_ head.
- A. raise
- B. countersunk
- C. flat
- D. all of the above

9. Screws should be used in preference to nails when \_\_\_\_\_.

- A. greater holding power is required
- B. the shock of driving nails may damage the work
- C. the work may have to be taken apart
- D. all of the above
- 10. The screw which is often larger than ordinary wood screws and it is driven with a spanner is called \_\_\_\_\_ head.
- A. oval
- B. flat
- C. hexagonal
- D. countersunk
- 11. When driving screw observe all except \_\_\_\_\_\_
- A. use screw driver that fits well into the slot
- B. screws can be driven with hammer
- C. drive screws until the head is just seated
- D. screws are driven easier if the points are dipped in wax or soap
- 12. The arrow labelled '6' in the drawing is known as \_\_\_\_\_.



- A. shank
- B. point
- C. gauge
- D. pitch
- 13. In the diagram shown, screw number 2 is called \_\_\_\_\_.



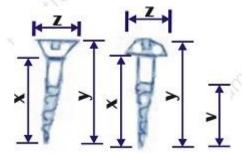
- A. flat head
- B. raised head
- C. round head
- D. coach screw
- 14. The "Phillips and Pozidriv" screws have \_\_\_\_\_ screw driver.
- A. cross slots
  - B. square
  - C. flat or cheese tip
  - D. round tip
- 16. Screws have holding power greater than nails because of the \_\_\_\_\_\_
- A. thread
- B. shank
- C. point
- D. head

- 7. Why should a screw not be driven with hammer?
- A. It reduces holding power

- B. It may break screw
- C. The thread fractures the fibre
- D. all of the above
- 18. The drawing labelled '2' is called \_\_\_\_\_.

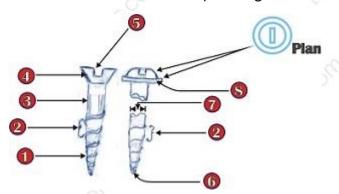


- A. raised cup
- B. dome cap
- C. screw plug
- D. flush socket
- 19. How are screws inserted to check counter sink?
- A. With the point on the countersunk hole
- B. With the head on the countersunk hole
- C. Using the diameter of the shank
- D. All of the above
- 20. In the diagram, the actual wrench size of the screw is marked \_\_\_\_\_.



- A. "V"
- B. "X"
- C. "Y"

- D. "Z"
- 21. The arrow labelled '4' is pointing at \_\_\_\_\_\_



- A. shank
- B. core
- C. head
- D. slot
- 22. When ordering screws, state all except \_\_\_\_\_.
- A. pitch size
- B. quantity
- C. material
- D. sizes

23. What name is given to screw number 3?

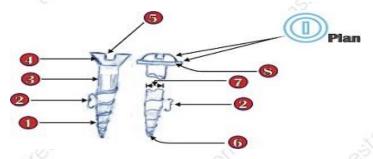






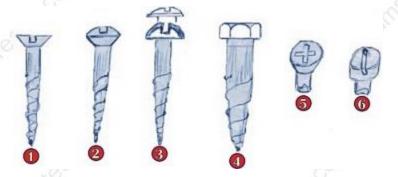


- A. Countersunk
- B. Raised head
- C. Round head
- D. Hexagonal head
- 25. In the diagram, which arrow points at the flange head?



- A. "5"
- B. "6"
- C. "7"
- D. "8"
- 26. Which of the screws is not used where corrosion is inevitable?
- A. Galvanized steel
- B. Mild steel
- C. Aluminum alloy
- D. Silicon bronze

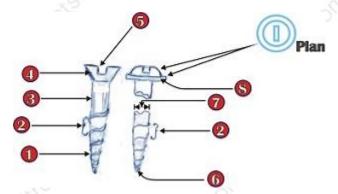
27. In the diagram, drawing number '1' is what type of screw?



- A. Countersunk head
- B. Coach Screw
- C. Raised head
- D. Oval head
- 28. Types of screws does not include \_\_\_\_\_ head.
- A. countersunk
  - B. diamond
  - C. round
  - D. raised
  - 29. The part of the screw that gives it the greater holding power is the \_\_\_\_\_\_
  - A. shank
  - B. point
  - C. thread
  - D. head

- 30. Which of the following tools are required when joining two pieces of hardwood together with screws?
- A. Screw driver, hand drill and screws

- B. Screws and screw driver
- C. Screws, hand drill and hammer
- D. Screws and hammer only
- 31. What part of the screw in the diagram is the arrow '1' pointing at?



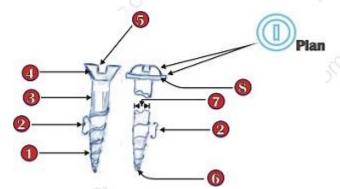
- A. Thread
- B. Point
- C. Core
- D. Shank
- 32. The drawing labelled '1' is called \_\_\_\_\_.



- A. raised cut
- B. dome cap
- C. screw plug
- D. flush socket
- 33. If it is required to fix a woodwork machine to bases or its stand, use \_\_\_\_\_ screw.
- A. hexagonal

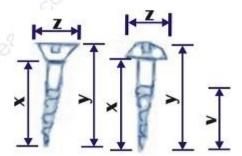
B. countersunk	
C. oval	
D. all of the above	
34. Screws are not sold in	
A. packets	
B. loose numbers of 3, 7, 10	
C. loose numbers of 10, 20, 30	
D. in packets of 50s for heavy guage long screws	
35. The screw used for general purpose where the head is to flush with the surrounding surface is head.	!
A. countersunk	
B. raised	
C. round	
D. hexagonal	
36. What type of screw is a combination of the countersunk and head screw	ws?
A. Coach Screw	
B. Countersunk	
C. Round head	
D. Raised head	
37. Screws are named according to the	
A. shanks	
B. heads	
C. threads	

- D. points
- 38. In the diagram, the arrow '3' is called \_\_\_\_\_.



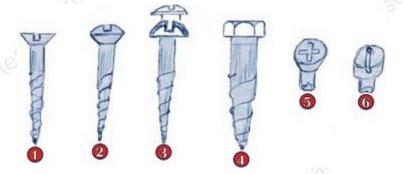
- A. pitch
- B. thread
- C. core
- D. shank
- 39. Screws are used to do all except \_\_\_\_\_.
- A. fix metal fittings
- B. fix and stays
- C. fix veneers to table tops
- D. strengthen joints

40. In the diagram, the actual thread length of the screw is marked \_\_\_\_\_.



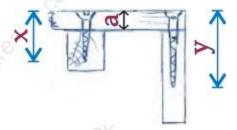
- A. "V"
- B. "Y"
- C. "X"
- D. "Z"
- 42. \_\_\_\_\_ screw is used for bridge construction, fixing gate and rough work.
- A. Raised head
- B. Countersunk head
- C. Coach
- D. Round head
- 43. If the slots of screws run parallel to one another or parallel to the grain surrounding them, this is called \_\_\_\_\_ the screws.
- A. heading
- B. slotting
- C. matching
- D. none of the above
- 44. \_\_\_\_\_ head screw is used where the head is visible as an ornament or where material is too thin for countersunking.
- A. Flat
- B. Countersunk

- C. Round
- D. All of the above
- 45. The three major parts of screws does not include \_\_\_\_\_\_
- A. handle
- B. head
- C. shank
- D. thread
- 46. The drawings represents types of \_\_\_\_\_.

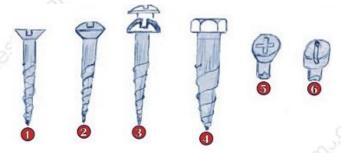


- A. bolts
- B. duplex nails
- C. screws
- D. screw drivers

47. In the diagram, when screw is parallel to fibres, "y" should be between \_\_\_\_\_ times "a".



- A.  $1^{1}/2 2$
- B.  $2^{1}/2 3$
- C.  $3^{1}/2 5$
- D. 5<sup>1</sup>/2 7
- 48. The screw driver used to drive the screw in the drawing labelled '6' is \_\_\_\_\_\_.

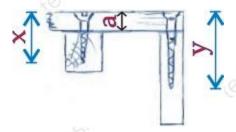


- A. flat screw driver
- B. cross screw driver
- C. star screw driver
- D. round screw driver
- 49. Why are screws staggered, not in straight line?
- A. For better holding power
- B. For easy withdrawal
- C. To prevent splitting of the wood grain
- D. all of the above
- 50. Boring holes for screw may be done with \_\_\_\_\_.
- A. bradawls

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в	brace	and	DITS

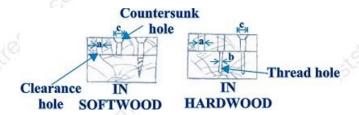
- C. power drills
- D. all of the above

51. In the diagram, the length required when the screw is across fibres, "x" is about \_\_\_\_\_ times "a".

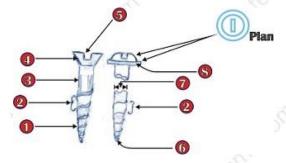


- A.  $1^{1}/2$
- B. 2
- C. 5
- D. 10
- 52. The drawing labelled '3' is identified as \_\_\_\_\_
- A. raised cup
- B. flush socket
- C. dome cap
- D. screw plug

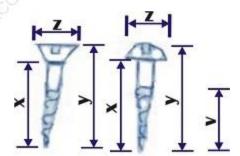
54. In the diagram, "c" (countersunk hole) should be \_\_\_\_\_.



- A. slightly more than diameter of head
- B. slightly less than diameter of head
- C. equal to the diameter of head
- D. half the diameter of core
- 55. When appearance of the work may be spoilt by nails, which type of screw are most appropriate?
- A. Round and raised head
- B. Round and countersunk head
- C. Raised head and coach screw
- D. Countersunk only
- 56. In the diagram, the arrow '2' points at \_\_\_\_\_.

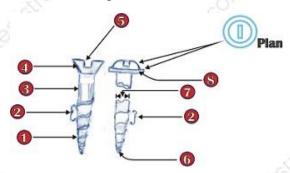


- A. thread
- B. pitch
- C. gauge
- D. shank
- 57. In the diagram, the actual length of the screw is marked \_\_\_\_\_.



- A. "V"
- B. "X"
- C. "Y"
- D. "Z"

58. In the diagram, the arrow labelled '5' points at the \_\_\_\_\_

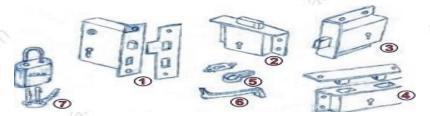


- A. head
- B. core
- C. slot
- D. pitch
- 59. How is brass and copper screw inserted?
- A. Drill pilot hole first
- B. Drive in a steel screw first to cut a thread in the wood
- C. Drive in the copper or brass screw at once
- D. Drill the countersink hole first only

**TOPIC: LOCKS** 

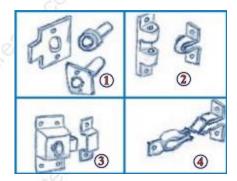
## **DIRECTION:** Choose the correct answer from the lettered options.

- 1. There are three types of according to method of fitting which does not include
- A. table
- B. straight
- C. cut
- D. mortise
- 2. Drawer, box and cupboard are made of \_\_\_\_\_
- A. brass
- B. nylon
- C. steel
- D. aluminum
- 3. What type of lock is labelled '2' in the diagram drawn?



- A. Drawer
- B. Mortise
- C. Cut cupboard
- D. Box

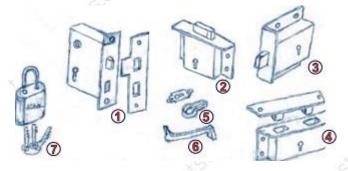
4. What is the name of the catch in the diagram drawn, number '2'?



- A. Ball catch
- B. Double ball catch
- C. Gripper spring catch
- D. Surface cupboard catch

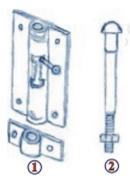
5.\_\_\_\_ is a lock usually cheap, simply screwed flat on the inside of the drawer or door.

- A. Mortise
- B. Straight
- C. Cut
- D. All of the above
- 6. The drawings shown are types of \_\_\_\_\_.



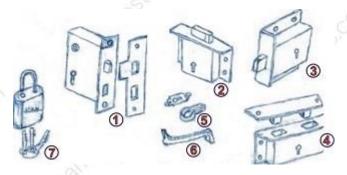
- A. wall brackets
- B. locks
- C. metal boxes
- D. pad-

7. In the diagram drawn, the bolt labelled '1' is called \_\_\_\_\_ bolt.



- A. flat
- B. barrel
- C. coach
- D. cylindrical

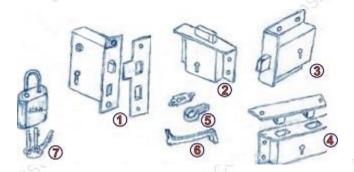
8. Which number in the diagram drawn is box lock?



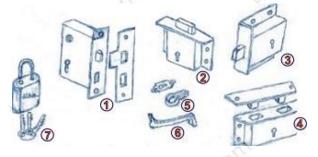
- A. "1"
- B. "2"
- C. "3"
- D. "4"

9. Mortise lock is used for \_\_\_\_\_.

- A. drawers
- B. boxes
- C. cupboards
- D. room
- 10. The part labelled '5' in the diagram drawn is called \_\_\_\_\_.

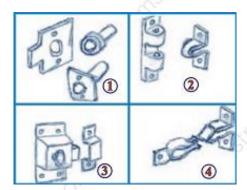


- A. catch strike plates
- B. escutcheons
- C.
- D. key pulls
- 11. The part labelled '7' in the diagram drawn is called \_\_\_\_\_\_.



- A. padlock
- B. keys and padlock
- C. keys
- D. mortise lock
- 12. Types of bolts include all except \_\_\_\_\_ bolt.

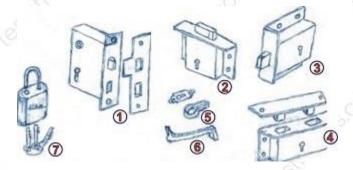
- A. offset
- B. flush
- C. barrel
- D. mortise
- 13. Types of catches includes all except \_\_\_\_\_ catch.
- A. French
- B. china
- C. magnetic
- D. spring
- 14. In the diagram drawn, the catch labelled '3' is known as \_\_\_\_ catch.



- A. ball
- B. double ball
- C. gripper spring
- D. surface cupboard

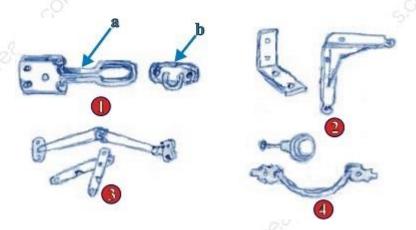
- 15. The mortise lock is made of \_\_\_\_\_\_
- A. brass, nylon and bronze

- B. nylon, bronze and aluminum
- C. brass, nylon and steel
- D. brass, steel and bronze
- 16. Other are let in except \_\_\_\_\_ lock.
- A. drawer
- B. box
- C. cupboard
- D. mortise
- 17. The lock labelled '1' in the diagram drawn is called \_\_\_\_\_ lock.



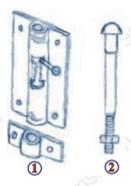
- A. drawer
- B. mortise
- C. cut cupboard
- D. box

18. In drawing number '1', what name is given to the part labelled 'a'?



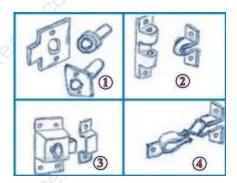
- A. Lid
- B. Hasp
- C. Staple
- D. Hook

20. In the diagram drawn, the drawing labelled '1 and 2' are called \_\_\_\_\_\_



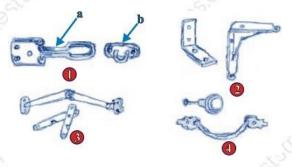
- A. bolts
- B. stays
- C. brackets
- D. flat screws

21. Which number in the diagram drawn is gripper spring catch?



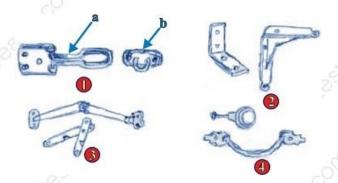
- A. "4"
- B. "3"
- C. "2"
- D. "1"

22. The drawing numbered '3' is a type of fittings called \_\_\_\_\_.

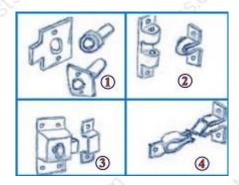


- A. brackets
- B. hasp and staple
- C. knobs and handles
- D. stays

23. What is the name of the fitting in the drawing labelled  $^{\prime}4^{\prime}?$ 

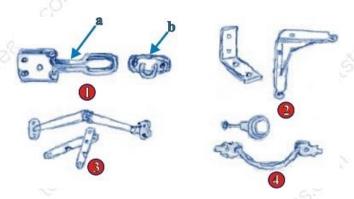


- A. Brackets
- B. Hasp and staples
- C. Knobs and handles
- D. Stays
- 24. The drawings in the diagram drawn are called \_\_\_\_\_.

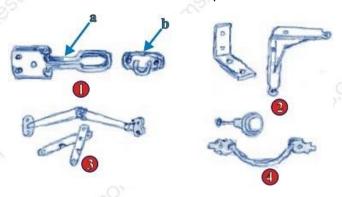


- A. bolts
- B. stays
- C. brackets
- D. catches

25. The drawing illustrates woodwork \_\_\_\_\_

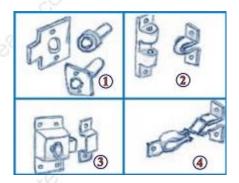


- A. fittings
- B. finishing
- C. templates
- D. all of the above
- 26. What is the name of the part labelled 'b' in drawing '1'?

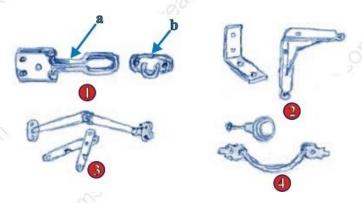


- A. Lid
- B. Hasp
- C. Stapple
- D. Hook

27. The catch labelled '1' in the diagram drawn is called  $\_\_\_$  catch.

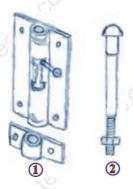


- A. ball
- B. double ball
- C. gripper spring
- D. surface cupboard
- 29. What is the drawing labelled '2' called?



- A. Brackets
- B. Hasp and stapple
- C. Knobs and handles
- D. and

30. What is the bolt labelled '2' in the diagram drawn called?



- A. Flat bolt
- B. Barrel bolt
- C. Coach Bolt
- D. Circular bolt

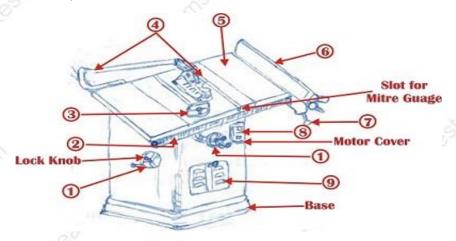
# **TOPIC: MACHINES (CIRCULAR SAW)**

#### **DIRECTION:** Choose the correct answer from the lettered options.

1. Which of the following is not the work of a circular saw?

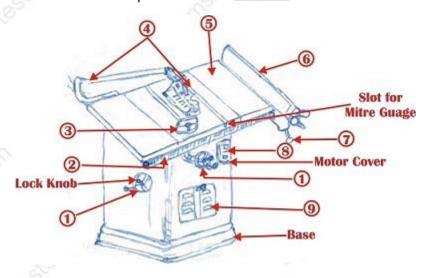
A. Rebating				
B. Circle cutting				
C. Trenching				
D. Bevel cutting				
2. For adjusting the fe	nce, which of the	e following is not	TRUE?	
A. Fasten the ripping	fence for all ripp	ing operations.		
B. Fasten the ripping	fence only when	ripping narrow l	ooards.	
C. The fence is usually	y placed to the r	ight side of the	blade.	
D. Measure the distar	nce from the fend	ce to one tooth	bent towards th	ne fence.
3. The angle of the op	ening in a push s	stick should be _		
A. 10°				
B. 15°				
C. 45°				
D. 90°				
4. The three teeth styl	es of the combir	nation blade incl	ude all except _	
A. style "S"				
B. style "T"				
C. style "U"				
D. style "V"				
5. The splitter or riving	knife is used to			

- A. cut the timber when the saw is weak
- B. cut rebates and grooving
- C. to keep saw kerf open
- D. to cover against accident
- 6. You can use \_\_\_\_\_ to cut rebate/groove.
- A. dado head
- B. wobble saw
- C. several saw cuts
- D. all of the above
- 7. What part of the machine is labelled '7'?



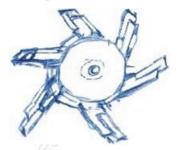
- A. Riving knife.
- B. Fence clamp lever.
- C. Saw adjustment wheel.
- D. Guard and splitter.
- 8. The purposes of saw guard include all except \_\_\_\_\_\_.

- A. prevent accidental contact with the saw
- B. prevent the teeth picking up wood accidentally
- C. prevent the teeth hurting a falling person or tool
- D. to prevent the blade from being dull
- 9. Which of the following is not a type of circular saw blade?
- A. Combination saw blades.
- B. Square-cut saw blade.
- C. Easy to cut blade.
- D. plywood saw blade.
- 10. The arrow '5' points at the \_\_\_\_\_

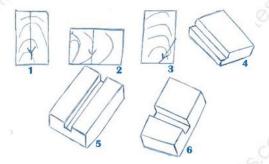


- A. ripping fence
- B. mitre guage
- C. table
- D. motor
- 11. When ripping a board longer than 1800mm which of the following should be observed?

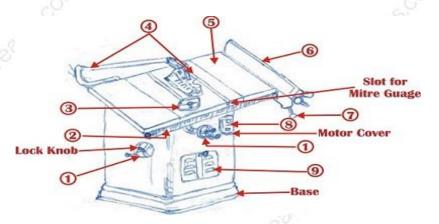
- A. Have a helper support the other end.
- B. Use a push block to support the work.
- C. Cut the board half way a side and through from the other end.
- D. Remove the ripping fence and rip through.
- 12. Which type of cutting accessory is drawn?



- A. Assembly of wobble saw
- B. Combination blade style 'U'
- C. Adjustable dado head blade
- D. None of the above
- 13. What operation is shown in the drawing '4'?

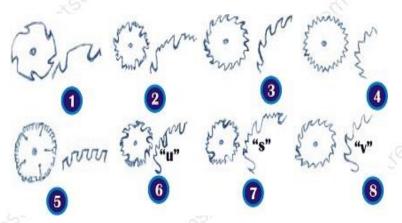


- A. Grooving
- B. Rebating
- C. Trenching
- D. Chamfering
- 14. The part in the diagram labelled '1' is called \_\_\_\_\_.

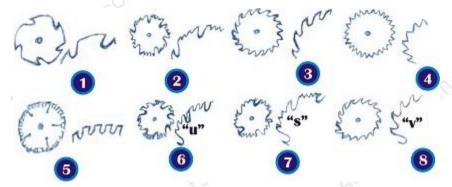


- A. mitre guage
- B. saw adjustment handwheel
- C. fence clamp lever
- D. graduated guide bar
- 15. Which type of saw is also called planer blade?
- A. Rip blade.
- B. Crosscut blade.
- C. Hollow ground blade.
- D. Combination blade.
- 16. What adjustments are made on the circular saw in preparation for ripping?
- A. Adjust the fence and blade.
- B. Adjust the guard and guide bar.
- C. Adjust the mitre guage and the saw.
- D. All of the above.
- 17. Why should only crosscut hollow-ground or combination blade be used for joint making?
- A. Most joints are crosscut (across the grain).

- B. These blades produce smooth cuts.
- C. Most cabinet workers cannot use rip saw.
- D. All of the above.
- 18. The blades in number '6, 7 and 8' are \_\_\_\_\_ blades.

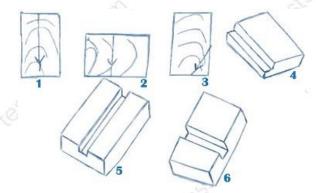


- A. cross-cut
- B. rip
- C. combination
- D. hollow ground
- 19. The drawing labelled '2' is a type of blade called \_\_\_\_\_ blade.



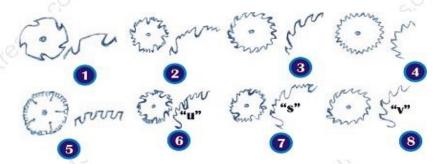
- A. rip
- B. easy-cut
- C. cross-cut
- D. hollow ground

20. What circular saw operation is shown in the drawing labelled '5'?



- A. Rebating
- B. Trenching
- C. Beveling
- D. Grooving
- 21. All cuts for making joints should be done with \_\_\_\_\_.
- A. ripsaw, crosscut or easy cut blade
- B. ripsaw, easy cut or plywood saw
- C. crosscut, hollow-ground or combination blade
- D. ripsaw or plywood saw only

22. The blade drawn in number '4' is known as \_\_\_\_\_ blade.

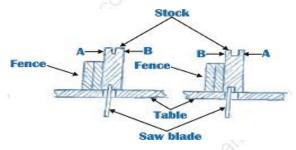


- A. rip
- B. cross-cut
- C. plywood
- D. hollow ground
- 23. When a fine cut is required the recommended teeth style of the combination blade is marked \_\_\_\_\_.
- A. style "S"
- B. style "U"
- C. style "V"
- D. style "O"
- 24. The diagram shows a \_\_\_\_\_.



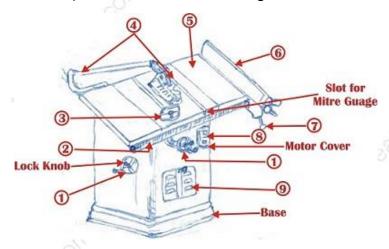
- A. harvesting stick
- B. tapping stick
- C. push stick
- D. chair pattern
- 25. The types of circular saw blades includes \_\_\_\_\_

- A. cut off or crosscut blade
- B. hollow ground or planer blade
- C. ripsaw blade
- D. all of the above
- 26. Which of the following is not true to circular saw?
- A. It is used to cut circles or curves
- B. The saw has the shape of a circle
- C. The saw rotates in circular movement
- D. The machine cannot cut circular patterns
- 27. Hollow ground blade is used where \_\_\_\_\_
- A. rough finish is desirable
- B. smooth finish is desirable
- C. the timber is land on the ground floor
- D. all of the above
- 27. Hollow ground blade is used where \_\_\_\_\_.



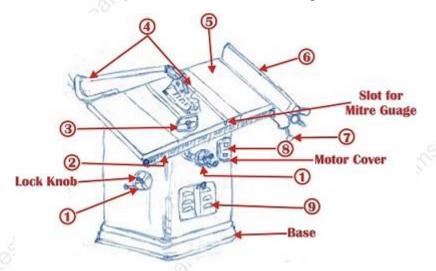
- A. rough finish is desirable
- B. smooth finish is desirable
- C. the timber is land on the ground floor
- D. all of the above
- 29. The cutoff blade is used for \_\_\_\_\_.

- A. cutting along the grain
- B. cutting across the grain
- C. cutting across and along the grain
- D. cutting plywood only
- 30. There are \_\_\_\_\_ kinds of circular saw blades.
- A. 2
- B. 4
- C. 6
- D. 8
- 31. How far above the work should the saw project?
- A. 3mm
- B. 8mm
- C. 18mm
- D. 28mm
- 32. The part labelled '2' in the diagram is called \_\_\_\_\_



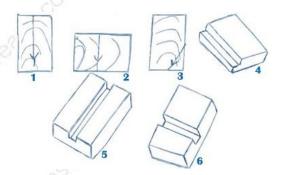
- A. graduated guide bar
- B. fence clam lever

- C. mitre guage
- D. guard and splitter (riving knife)
- 33. What is the part labelled '3' in the diagram called?

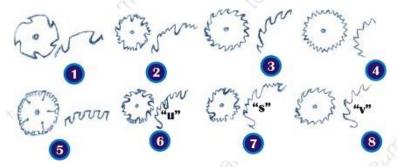


- A. Guide bar
- B. Mitre guage
- C. Switch
- D. Saw dust clean-out
- 34. The methods of cutting a groove include all except \_\_\_\_\_.
- A. making one cut with a standard blade
- B. making two or more cuts with a standard blade
- C. using a wobble washer
- D. using a dado head

35. The sawing operation in the drawing labelled '3' is \_\_\_\_\_.



- A. grooving
- B. cross cutting
- C. mitring
- D. chamfering
- 36. Woodwork machines refers to all except \_\_\_\_\_
- A. machines that are mounted.
- B. machines that cannot be lifted by hand
- C. machines that are taken to the job
- D. machines that job is taken to it
- 37. Identify the name of the blade drawn in number '5'?



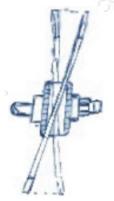
- A. Cutoff blade
- B. Plane blade
- C. Combination blade
- D. Plywood blade
- 38. The combination blades are designed for \_\_\_\_\_.

A. ripping
B. crosscutting
C. various sawing operations
D. all of the above

39. What is another name for a blind dado?
A. Cross dado.
B. Close dado.
C. Stop dado.
D. None of the above.

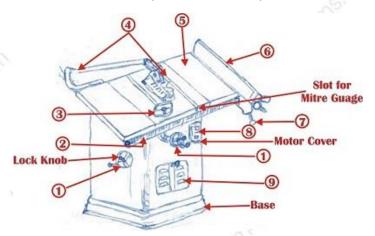
40. On the circular saw, it is always true that \_\_\_\_\_.
A. when ripping, place the jointed edge against the edge
B. you don't remove scraps with finger but with push stick or brush
C. guard should be slightly below the level of the teeth
D. all of the above

#### 41. The drawing illustrates \_\_\_\_\_\_



- A. lathe machine face plate turning action
- B. loosed circular sawing machine blade in motion
- C. assembly of wobble saw

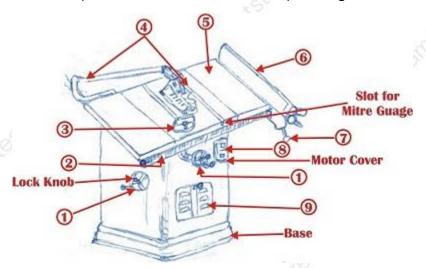
- D. none of the above
- 42. What is meant by "resawing"?
- A. Ripping a board along its width to make two thin boards.
- B. Sawing the same line again mistakenly.
- C. Sawing timber again after conversion.
- D. Crosscutting a board across its length to make two short boards.
- 43. Why is stop block used when cutting a stop dado?
- A. To stop the circular saw blade.
- B. To block the saw from cutting the hand.
- C. To control the length of cut.
- D. All of the above.
- 44. The arrow '8' represents what part?



- A. Clamp lever.
- B. Mitre guage.
- C. Saw dust clean-out.
- D. Switch.

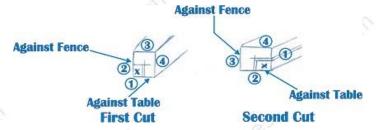
45. Which teeth style is the fastest cutting of the various combination saws and also used on all types of machines?

- A. "U"
- B. "V"
- C. "S"
- D. "T"
- 46. What part is the arrow labelled '9' pointing to?



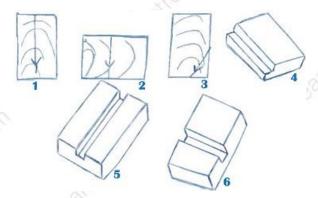
- A. Clamp lever.
- B. On and off switch.
- C. Sawdust clean-out.
- D. Guard and splitter.
- 47. The easy-cut blade is designed for \_\_\_\_\_ work
- A. ripping
- B. cut off
- C. combination
- D. all of the above

- 48. \_\_\_\_\_ Blade is used for cutting along the grain only.
- A. Rip
- B. Easy-cut
- C. Cut-off
- D. Planer
- 49. What is dado in the use of circular saw?
- A. A rebate cut along the grain.
- B. A mortise cut across grain.
- C. A groove cut across grain.
- D. None of the above.
- 50. What does the diagram illustrate in the use of a single saw blade?



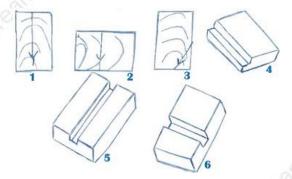
- A. Steps to ripping the square edged timber
- B. Steps to grooving a square timber.
- C. Steps to cutting a rebate.
- D. Steps to cutting a trench.
- 51. What does the diagram illustrate with the use of a circular saw?
- A. Cutting a rebate with a single saw blade.
- B. Cutting a groove with a single saw blade.
- C. Cutting a groove with a dado head blade.
- D. Cutting trench with a single saw blade.

- 53. Use \_\_\_\_\_ of 300mm long to pass the end of a short piece through.
- A. push stick
- B. push block
- C. pass rod
- D. push bar
- 54. Stop block should be used when \_\_\_\_\_.
- A. cutting a through dado
- B. cutting a blind or stop dado
- C. cutting to prevent accident
- D. stopping the circular saw
- 56. The circular saw operation in the diagram labelled '1' is \_\_\_\_\_\_



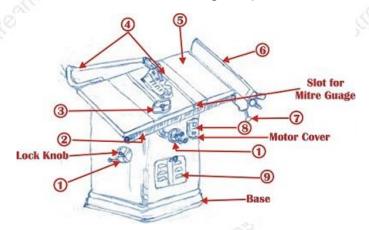
- A. crosscut
- B. ripping
- C. mitre cut
- D. grooving

57. Which operation is shown by the drawing labelled '2' in the diagram?



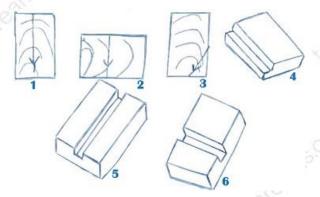
- A. Cross cut
- B. Rip cut
- C. Groove cut
- D. Mitre cut
- 58. Generally the two ways of adjusting the circular saw are \_\_\_\_\_.
- A. adjust depth of cut and width of cut
- B. adjust depth of cut and tilting for bevel cutting
- C. adjust length and breadth cutting
- D. adjust up and down cutting
- 59. How many cuts are necessary to make a rebate on a circular saw with a single saw blade?
- A. 1
- B. 2
- C. 3
- D. 4

60. The arrow '4' in the diagram points at \_\_\_\_\_



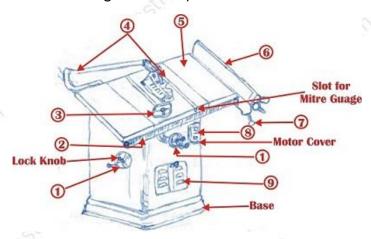
- A. fence clam lever
- B. guide bar
- C. ripping fence
- D. guard and splitter (riving knife)
- 61. The circular saw is used to \_\_\_\_\_.
- A. rip
- B. cross cut
- C. mitre
- D. all of the above
- 62. When cutting a very narrow stock it is better to \_\_\_\_\_.
- A. cut half the length, reverse and cut from the other end
- B. cut through from one end
- C. cut the length into two, cut each separately
- D. cut with a narrow blade

#### 63. Which sawing operation is shown in the drawing '6'?



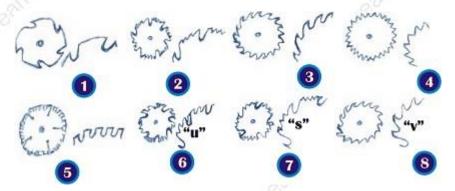
- A. Grooving
- B. Trenching
- C. Rebating
- D. Beveling

#### 64. In the diagram, what part is arrowed '6'?



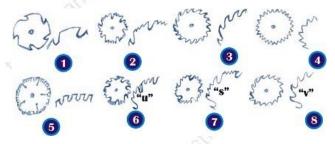
- A. Ripping fence.
- B. Fence clamp lever.
- C. Guide bar.
- D. Riving knife.

#### 65. The drawing illustrates types of \_\_\_\_\_



- A. disc sanders
- B. metal templates
- C. circular saw blades
- D. band saw blades
- 66. The wobble washes are used for \_\_\_\_\_
- A. cutting rebates
- B. cutting trenches
- C. cutting grooves
- D. mitre cutting

### 67. What type of blade is drawn in number '3'?



- A. Rip blade
- B. Cross-cut blade
- C. Plywood blade
- D. Plane blade

68 blade is also known as cut off blade.
A. Crosscut blade
B. Easy-cut blade
C. Rip blade
D. Plywood blade
69. The recommended combination teeth style for radial-arm saws is marked
A WIN
A. "U"
B. "V"
C. "S"
D. "O"
70. In the diagram, the blade in number '1' is called blade.
Lot of the state o
1 2 3 4
Carl Sun Buri S" Fund S"v"
5

A. plywood

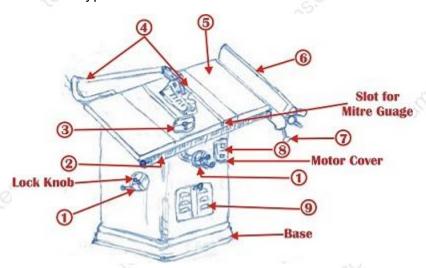
B. easy-cut

C. cut off

D. rip

71. Why are washers used in the assembly of wobble saw for cutting grooves?

- A. The washers provides friction for fine cutting
- B. The washers cause the blade to run out of line, thus making a wide cut
- C. The washers cause the blade to run in line thus making a wide cut
- D. Washers provides a padding effect for a firm grip of the blades by the nut
- 72. What type of woodwork machine is drawn?



- A. Circular saw
- B. Surface planer
- C. Thicknesser
- D. Band saw

## **TOPIC: MACHINES AND MAINTENANCE**

#### **DIRECTION:** Choose the correct answer from the lettered options.

1. As a way of maintenance what should be done to the saw dust as they	fall?
A. Should be left until the days work to avoid delay.	
B. Should be spread round the machine.	
C. Should be removed as often as they occur.	
D. Should be allowed to touch the saw before cleaning them.	
2. As a form of maintenance any cracked or torn belt should be	
A. sewn or sticked	
B. removed and replaced	
C. soaked and painted	
D. all of the above	
3. Regular maintenance involves all except	
A. servicing machines	
B. resharpening of blades	
C. oiling of moving parts	
D. cooling of blades	
4. What importance is rubbing grease on a saw?	
A. So that cleaning becomes easy.	
B. To avoid rust and friction.	
C. To make the saw to shine like new one.	
D. All of the above.	
5. Maintenance of machines also include all except	

A. cleaning and dusting macr	nine daliy		
B. feeding the machine with s	speed		
C. checking and removing sp	oilt plugs, sockets and	lleads	
D. checking and removing pie machine	eces of sticks and met	al stuck to any part c	of the
6. If suddenly the saw kerf be	comes tight, what migh	nt be the problem?	
A. The saw may not be sharp			
B. The saw teeth may be brok	ken		
C. The power may be low			
D. The setting may have been	n removed		
7. Water used to cool down sa	aw should not be allow	ed to trickle down th	e lead, why?
A. It may cause shocking dan	iger		
B. It will cool the lead which i	s not important		
C. It will wet the floor			
D. All of the above	, Silo		
8. Once a saw teeth is broken	or cracked		
A. throw it away as useless			
B. sell it to scavengers for ot	her uses		
C. re-shape or top the teeth	as appropriate		
D. all of the above			
9. The periodic maintenance i	includes		
A. re-sharpening of blades	0		
(6)			

B. oiling of moving parts	
C. over-hauling of machines	
D. all of the above	
10. Since water supports rust, the fo	ollowing should be done to saws often cooled
A. it should be sold once it rusts	
B. it should be kept dry after work	
C. it should be greased after work	
D. it should be dried and hung up a	
A. Slip stone.	
B. Wire brush.	
C. Oil stone.	
D. Spoke shave.	
D. opone shave.	
12. If on the process of sawing, the reason?	wood start tightening the saw, what might be the
A. Friction due to wood fibre.	
B. Friction due to wood sap conter	nt.
C. Setting might have been remove	ed due to long usage of saw.
D. All of the above.	
13. Which of the following is not a ca	ause of cracked or worn out belts?
A. Long use.	
0,0	

B. Cracked pulley.		
C. Regular feeding.		
D. Overheating.		
14. Periodic over-hauling is	maintenance by	·
A. loosing, cleaning and tig	hting of blades	
B. loosing parts of machine	es, cleaning and reassem	nbling parts
C. loosing and rewinding o	f coils	
D. loosing, oiling and repla	cing of guards and fence	es s
15. When the saw is tighten should be done?	ed in the process of cut	ting not because of setting, wha
A. Inject lubricating oil on t	the saw body.	
B. Sprinkle water, it may be	wood sap or heat.	
C. Put wooden wedge, it m	ay be growth defect.	
D. All of the above.		
16. What should be done to	a saw that is no more fr	ree as it started?
A. Take it to blacksmith to	reduce the thickness.	
B. Reset the saw teeth.		
C. Push a wedge stick into	the kerf to widen it.	
D. All of the above.		
47.11.	×2"	CORRECTIVE
Off.		CORRECTIVE maintenance?
A. When the machine is in	use but a fault is not det	rected

B. As soon as the fault is detected

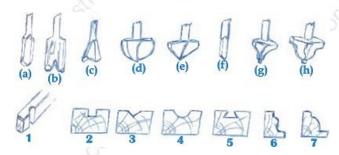
C. Before the machine	e is put into use as	provided by the manufactur	er
D. None of the above			
18. The following need	l daily maintenance	e, except	
A. blades			
B. guards			
C. motor			
D. fences			
19. When not in use sa	aws should be		
A. cleaned and hung	on a wall peg		
B. dropped on the rea	ar table		
C. kept on the floor			
D. left on the woodwo	ork bench		
20. Belts should be us	sed only when they	are	
A. crack free			
B. cracked			
C. newly bought			
D. oiled			
21. When should an opmachines?	perator embark on a	a PREVENTIVE maintenance	of woodwork
A. When the machine	is in use but a faul	t is not detected yet.	
B. When the machine	has shown a fault.		
C. As soon as the ma	chine is bought and	d put into use.	

- D. None of the above.
- 22. The circular saw machine can be maintained by all except \_\_\_\_\_.
- A. re-sharpening the blade regularly
- B. cooling the blade as often as it cuts
- C. greasing the moving parts periodically
- D. heating and drying the blade regularly

## **TOPIC: PORTABLE POWER TOOL AND MAINTENANCE**

#### **DIRECTION:** Choose the correct answer from the lettered options.

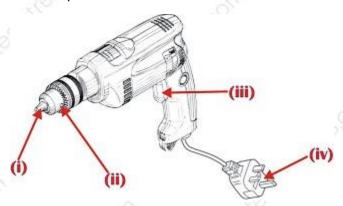
1. When cutting the shape labelled '4', which bit in the first set of diagram should be used?



- A. d
- В. е
- C. g
- D. h
- 2. Why shouldn't an operator hold a small stock by the hand when working?
- A. The hand might be injured
- B. The stock may be lifted and cause accident
- C. The stock may be shaking, causing bad cutting
- D. all of the above
- 3. Why is the power saw teeth set to just project through the thickness of the board?
- A. To prevent overloading.
- B. To prevent overheating.
- C. To prevent splintering.
- D. all of the above.
- 4. Portable power jig saw is used to cut \_\_\_\_\_ shapes.

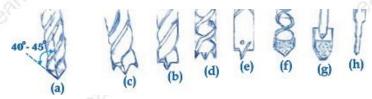
A. straight				
B. curved				
C. irregular				
D. all of the above				
5. Rigid disc type sanders	s are used for	-co/,		
A. squaring ends				
B. trimming mitres				
C. shaping end chamfers	and bevels			
D. all of the above				
6. Some attachment con	vert the drill in	nto power tools	such as	
A. circular saw				
B. sanders				
C. power plane				
D. all of the above				
7. Special drill attachmen	t for cutting in	nclude all excep	ot	
A. hole saws				
B. rotary drum cutter (su	rform)			
C. corrugated blade (cor	rucut)			
D. cone saws				
×62				
8. Power drill has fast and	d slower speed	d type, the fast	speed drill is u	ised to drill
A. wood				

- B. metal
- C. masonry
- D. none of the above
- 9. Jig saw blade for general use is about \_\_\_\_\_ long.
- A. 25mm
- B. 55mm
- C. 75mm
- D. 150mm
- 10. The part labelled 'iv' is known as \_\_\_\_\_



- A. three pin plug
- B. three pin jaw chuck
- C. insulated trigger
- D. gear selector

#### 11. What is the name of the drawing labelled 'h'?



- A. Masonry drill
- B. Glass drill
- C. Screw bit
- D. Spur bit
- 12. Which of the following is not a safety measure observed when using the router?
- A. Make adjustment while the cutter is moving so that no time will be wasted.
- B. Keep both hands on the handles.
- C. Securely clamp the work piece.
- D. For stopped trenches and grooves switch off before lifting the router.
- Types of power saw blades includes all except \_\_\_\_\_\_.
- A. silver oxide disc
- B. silicon carbide disc
- C. tungsten carbide tipped
- D. aluminum oxide disc
- 14. Home duty power tools has all these characteristics except \_\_\_\_\_.
- A. they are light to medium intermittent use only
- B. they cannot be heated-up when forced
- C. they are suitable for home use
- D. they are fitted with sleeve bearings or bushes

15. With special blades power saw can be used to cut A. rods B. bricks C. asbestos D. all of the above 16. Which of the drawing is wire brush attachment? A. iii B. iv C. v D. vi 17. Types of belt sanders include . A. portable self-powered tools

B. stationary sanders

D. all of the above

D. none of the above

A. rip

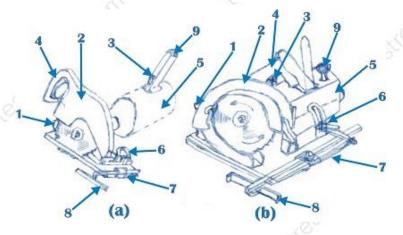
B. crosscut

C. plane

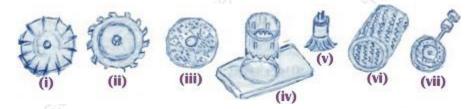
C. portable spindle drive drill attachment

18. Power router can easily without waste

- 19. Which of the following is not a safety measure with regards to the use of power sander?
- A. Never touch the edge of a moving belt or disc
- B. Use water and brush while the machine is moving to clean the abrasive
- C. Be sure no nicks or tears in the edge of a disc or belt
- D. Lower the sander with the heel touching the work first
- 20. The part labelled '7' is known as \_\_\_\_\_



- A. cutting guide notch
- B. ripping fence
- C. tilting quadrant
- D. tilting guide
- 21. Which attachment is drawn in 'i'?



A. Circular saw

- B. Hole saw
- C. Corrucut
- D. Mortiser

# **TOPIC: SAFETY RULES IN THE MACHINE SHOP**

### **DIRECTION:** Choose the correct answer from the lettered options.

1. Safety rules on switc	hing on should ir	ıclude all except
A. stand on the right of	or left when switch	hing on
B. do not allow others	to stand in line w	vith the blade
C. stand directly in line	e with the blade	
D. allow the motor to r	each full speed b	pefore sawing
2. Check all of the follo	owing except	before using the band saw.
A. clothing		
B. spur Centre		
C. guards		
D. blade		
3. On switching-on, do	all except	All Agille
A. observers should st	and a good dista	ance away
B. note the sound of t	he machine	
C. don't stand in the fi	ront of the machi	ine
D. report any noises		
4. Clearance block is u	sed for	
A. passing the timber	through the saw	
B. repetition ripping		
C. repetition cross cut	tting	

D. constant cutting

5. In the use of circular saw one should
A. use correct saw for the job
B. use sharp saw
C. properly set saw
D. all of the above
6. When ripping a long board cut with the
A. curved edge against the fence
B. straight edge against the fence
C. surface not touching the table
D. all of the above
7. Why should we not saw freehand?
A. The timber will dirty the hand if not covered
B. To avoid shock from the switch
C. To avoid injury from wood
D. Freehand is only for the adults
8. When it is required to rebate a wide board and a small strip, rebate, then rip to required size.
A. wide board first
B. small strip first
C. wide and strap at once
D. none of the above
9. Why should cylinderical work be clamped to a suitable jig?
A. Because jig is a machine next to band saw.

B. Because the cylinderical job tends to spin and draw into the saw.

C. C	Cylinderical jobs are cut only on	the lathe mad	chine.		
D. C	Sylinderical jobs can always cut	the blade.			
10. F	or final surface planning	_ cut is suffic	ient.		
A. 1.5	5mm				
B. 2.	7mm				
C. 0	).7mm				
D. 1.9	9mm				
11. Fc	or the tailstock, do all the follow	ing except	-XCO)		
A. sc	crew tailstock center tightly into	the job			
B. de	ead center should not be well p	ointed to avo	oid splitting woo	od	
C. ti	ghten tailstock spindle clamp le	ever			
D. gr	rease or wax dead center end c	of wood			
12. W	/hat is the effect of too much do	own-pressure	on warped thin	n stock?	
A. Th	he wood will break				
B. It	will not allow the machine prod	uce a true su	rface		
C. It	will cut the hand				
D. It	will stop the machine and the s	source of pow	<i>i</i> er		
13. Tł	he following are true to polishin	g a turned pi	ece except		
A. us	se cotton waste				
B. us	se a small pad to apply polish				
C. us	se no loose ends that may catc	h on the job			
D. ho	old cloth under the work				
14. Sc	crews through face plate should	d be			
	25				

A. tight, but not over-turned	
B. loose and over-turned	
C. tight and well glued	
D. all of the above	
15. Safety precautions on lathe include	de all except
A. safe clothing	
B. check stock of nails, knots etc.	
C. setting-up tool rest	
D. precaution when fitting blades	
16. Spur centre should be driven into	×0.
A. pencil marks	
B. bored holes	
C. saw cuts	
D. biro marks	
17. It is safer to plane on the	surface planer.
A. diagonally	
B. along the grain	
C. across the grain	
D. from any angle	
18. For correct setting-up blade chec	ck out includes all except
A. fitting of blade cutting on down st	roke
B. guide and pressure foot should no	ot be adjusted to stock thickness
C. blade secured and in correct size	guide
D. sufficient tension on the blade to	keep it taut

19. What is the sho	rtest size by the end	that can be planed saf	ely on the jointer?
A. 450mm			
B. 900mm			
C. 150mm			
D. 250mm			
20. For a better se job.	tting, the teeth shoul	d project about	_ above the top of the
A. 8 – 10mm			
B. 2 - 3mm			
C. 35 - 65mm			
D. 50 - 100mm			
×			
21. Before you start	t cutting on band sav	v <u></u>	
A. allow the saw to	attain full speed		
B. hold the work fla	at on the table		
C. mark the design	n to be cut		
D. all of the above			
22. Adjust the saw thickness of the wo	guide and sliding gua	ard until it is about	above the
A. 2mm			
B. 5mm			
C. 10mm			
D. 20mm	×6		
23. The drive rod u	sed for removing spu	ır centre is removed fro	om

A. tailstock	
B. headstock	
C. tool-rest	
D. bed	
24. When should the guar	d be removed?
A. When ripping	
B. When cross cutting	
C. Rebating	
D. Jointing	
25. When using the lathe	ou should
A. give full attention to th	e work
B. not lean over the revo	ving job
C. stand to one side whe	n switching on
D. all of the above	
26. What accessory should	d be used when ripping narrow pieces of wood?
A. Clearance block	
B. Push stick	
C. Push block	
D. All of the above	
27. When feeding the wor	cobserve all except
A. don't feed work directl	
B. feed work slowly	
C. feed work fastly	
D give the blade time to	-AT

28. Why should the wood be fed go	ently into the blade?
A. To give the teeth time to cut an	d not to break.
B. Because band saw motor is a g	entle machine.
C. Because band saw uses a low p	oower.
D. All of the above.	
29. What is the thinnest piece of st	tock that can be planed safely on the jointer?
A. 3mm	
B. 5mm	
C. 7mm	
D. 9mm	
30. The tool rest should be	_ on the top.
A. rough	
B. smooth	
C. grooved	
D. scratched	
21 You have to switch off to do all	of the following event
31. You have to switch off to do all	or the following except
A. to make adjustments	
B. when you have finished work	
C. to change blades	at Siles
D. when you want to take another	piece
32. Use to pass the piece	through the surface planer's cutter.
A. push block	
B. push stick	

C. push pattern		
D. pull block		
33. To protect the hand, it	is safe to	
A. keep fingers away from	the blade	
B. not to reach past the bl	lade	
C. use push sticks		
D. all of the above		
34. Keep the fingers	away from the cutters.	
A. 40mm		
B. 60mm		
C. 80mm		
D. 100mm		
35. For convenience on th	e same piece, the first work among	the following is
A. cross cut first		
B. groove first		
C. rip first		
D. rebate first		
36. Keep your finger at lea	st away from saw blade.	
A. 20mm		
B. 30mm		
C. 50mm		
D. 75mm		

37. Drive spur centre into sa	w cuts with	<b></b>	
A. hammer			
B. screw driver			
C. mallet			
D. machete			
38. When is a start hole bore	ed at corners of a	stock?	
A. During internal cutting			
B. When mitring a piece			
C. When ripping a job			
D. During cross-cutting			
39. When planning a cupped	d stock, place the	on the ta	ıble.
A. hollow side			
B. convex side			
C. hollow and convex side			
D. middle side			
40. The following are the rea	asons for using sh	arp knives except	t
A. sharp knives may cut the	hands		
B. dull knives vibrates the w			
C. dull knives may cause 'kid	ck-back'		
D. sharp knives produces sh	narp work		

41. Which of the following is not a part of a circular saw safety test?
A. Requirement for preparing a stock for cutting
B. The use of clearance block
C. The use of push block
D. Safe switching and fingers position rules
42. What proves a good workshop floor?
A. It is clear of scraps.
B. It provides a good foot-hold.
C. It is not slippery or shined.
D. All of the above.
43. Check settings should include all except
A. adjusting the fence so that the stock will not bind in the teeth
B. guard should be slightly below the level of the teeth
C. use a clearance block or fence which extends just past the first tooth
D. guard should be slightly above the level of the teeth
44. For safety, face place stock should have corners.
A. sharp
B. curved
A. sharp B. curved C. removed D. painted
D. painted

45. Tool rest should be adjusted clos	se to work within	
A. 3mm		
B. 9mm		
C. 15mm		
D. 20mm		
46. Use slow speed for all except	. The state of the	
A. roughing of corners of square block	ck	
B. a glued stock		
C. large diameter work		
D. short length pieces		
47. During internal cuttings do all exc	ept	
A. release tension on table first		
B. remove tension from the jaw first		
C. bore start holes on corners of a st	tock	
D. all of the above		
48. The safety distance between the away.	band saw and the observer s	hould be about
A. 300mm		
B. 1m		
B. 1m C. 3m D. 6m		
D. 6m		

49. For initial surface planning	cut is sufficient.	
A. 1.5mm		
B. 3mm		
C. 3.5mm		
D. 6mm		
50. A right blade when tapped so	ound like	
A. a drum		
B. a bell		
C. a clock		
D. a pipe		
51. Clicking noise indicates all exc	cept	
A. the blade is new		
B. the blade has cracked		
C. the blade is not tracking prope	erly	
D. the blade is about to break		
52. Why should one straight edge circular saw?	e go against the fence edge when cutting on	а
A. To get any other piece that is o	cut to be straight edged	
B. So that it won't be planed after	r cutting	
C. So that the fence will keep it fr	rom falling away	
D. To get another piece that is cu	ut very short	

. The guards have all these conditions except
remain where it is adjusted
cannot be adjusted
must move to cover the knives
be adjusted
. The circular saw should be
correctly and securely mounted on the arbor
not be mounted on the arbor
correctly and loosely mounted on the arbor
incorrectly and loosely mounted
. Which of the following is not inspected and checked on circular saw?
Loose clothing.
Condition of the tool rest.
. Working condition.
Machine maintenance.
. Holding the stock to stop the lathe will
injure the hand
heat up the motor
shift the setting at the spur centre
all of the above
incorrectly and loosely mounted  Which of the following is not inspected and checked on circular saw?  Loose clothing.  Condition of the tool rest.  Working condition.  Machine maintenance.  Holding the stock to stop the lathe will  injure the hand  heat up the motor  shift the setting at the spur centre

- 57. What danger can scraps left on the table or floor cause in the machine workshop?
- A. Students may carelessly write on them.
- B. Students may playfully set fire on them.
- C. One may stumble on them and fall on a moving machine.
- D. All of the above.
- 58. Which of the following is not a working condition?
- A. Wear suitable clothing when suitable.
- B. Remove scraps from saw table and floor.
- C. Do not eat or drink in the machine workshop.
- D. Do not touch moving machine blade.
- 59. Which of the following is a maintenance condition?
- A. Grease nipples require regular oiling or greasing.
- B. Don't distract machine operator.
- C. Wear hand gloves and goggles while polishing.
- D. Use wet cloths while polishing.
- 60. What are the things to set-up every day in a circular saw?
- A. Guards, blades and fence
- B. Guards, knots and stand
- C. Table, belts and control switch
- D. All of the above

61. Safety clothing in the use of the lathe does not include	
A. wear coat and tie	
B. wear beret to keep hair in place	
C. wear eye goggles	
D. wear apron tied at the back	
62. Students must never interfere with switch on or off control without perm because	ission
A. the teacher wants to be sure they are in good condition	
B. switch on and off control is expensive	
C. students don't know the switch on and off	
D. students are not electricians	
63. Why is a clearance block fixed to the fence when crosscutting a number to the same length?	of pieces
A. To block any person coming to the machine	
B. Because cross-cutting is more difficult than rip-cutting	
C. So the cut pieces may wedge between the blade and fence and be throw	wn back
D. So the pieces can be cut sharply	
64. When you switch off the circular saw, don't leave until	
A. the saw stops	
B. 6:00pm	
C. the machine cools	
D. you re-sharpen the saw	

65. In which of the following	ງ should you pla	ane?		
A. Plane stock less than 25	Omm long.			
B. Plane stock less than 9n	nm thick.			
C. Plane stock more than 6	SOOmm long.			
D. Plane ends less than 25	Omm wide.			
66. Push sticks is a safety s	tick, prevents ir	njury to the		
A. eyes				
B. feet				
C. hand				
D. head				
67 To see that the	timber revolves	s clear of the tool re	est for safety re	asons.
A. Start the machine				
B. Use the microscope				
C. Call a supervisor				
D. Turn the work by hand				
68. What can make the blac	de not to run fre	e?		
A. Dirt or rust				
B. Oil or grease				
C. Water or breeze				
D. All of the above				

69. What to check before band saw is started is	
A. if sleeves are rolled up, tie tuck and eye shield	
B. if there are scraps on the floor	
C. if switches, plug, lead etc. are in order	
D. all of the above	
70. What is the shortest piece of stock to be planed safely on the jointer?	
A. 100mm	
B. 250mm	
C. 450mm	
D. 900mm	
71. When working a long material, it is better to	
A. carry the material alone to avoid distraction	
B. look for a helper to maintain a fine cut	
C. push through the saw, then pull through it alone to save money	
D. all of the above	
72. If slightly cupped timber is to be cut in a circular saw, which statement is co	rrect?
A. Place the round side up on the table	
B. Place the round side down on the table	
C. Cut by the edge side	
D. Cut by rubbing oil on the saw	
73. When do one switch off the main power?	
A. To take measurement	
B. To adjust the fence	
C. To change blades	
	A. if sleeves are rolled up, tie tuck and eye shield B. if there are scraps on the floor C. if switches, plug, lead etc. are in order D. all of the above  70. What is the shortest piece of stock to be planed safely on the jointer? A. 100mm B. 250mm C. 450mm D. 900mm  71. When working a long material, it is better to A. carry the material alone to avoid distraction B. look for a helper to maintain a fine cut C. push through the saw, then pull through it alone to save money D. all of the above  72. If slightly cupped timber is to be cut in a circular saw, which statement is co A. Place the round side up on the table B. Place the round side down on the table C. Cut by the edge side D. Cut by rubbing oil on the saw  73. When do one switch off the main power? A. To take measurement B. To adjust the fence

D. All of the above			
74. Jointer safety test inclu	ıde all except		
A. precautions on mountin	ig the face plate		
B. observing safe clothing	rules		
C. knowledge of the short	est and thinnest sto	ck to be planed	
D. precautions on adjustm	ents of guards		
75. Why is it not advise able	e to plane very shor	t or very narrow sto	ck?
A. Jack plane can do it.			
B. It is a waste of time.			
C. It may tilt and catch in t	he cutters.		
D. All of the above.			
-51511			
76. What instruction can be	e given to a helper f	or a fine cut?	
A. Never listen to the oper	ator		
B. Look never touch the ti	mber		
C. Never pull the work thro	ough the saw		
D. Move here and there in	search of customer	rs	
77. The circular saw safety	first test should incl	lude	
A. state the purposes of a	guard		
B. what adjustments are m	ade on the circular	saw in preparation f	or ripping
C. how can one stand whil	e switching on and	off	
D. all of the above			
78. Observers must observ	e all except	, A	
A. observers stay at least	1m away from the ma	achine	

B. observers stay on the ri	ight hand side of saw	I MICES	
C. observers must not ope	erate any part of ban	d saw for trying	
D. all of the above			
79. Edge jointing does all e	except		
A. use left hand to press s	stock on the table		
B. use right hand to move	the job		
C. to finish the cut hold do	own work on the table	e and	
D. keep both hands very c	close to the knives		
80. Why should persons no switching on the machine?		d directly in line with t	he blade when
A. There is no place to sta	and on the front side		
B. Blade might remove or	fling particles that ma	ay cause harm	
C. Operators know only ho	ow to stand by the rig	ght or left side	
D. Switches are always by	the left or right side		
	-Silo		
81. When switched off, stay	until blade stops be	cause	
A. a free running ban saw	makes very little nois	e.	
B. another operator may n	ot notice that it is sti	ill running.	
C. other machines noise n	nay cover the noise o	of the band saw.	
D. all of the above.			
82. Operators should look	out for which of thes	se during sawing?	
A. Splits			
B. Loose knots			
C. Nails			
D. All of the above			

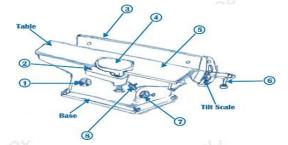
83. Why should the s	stock be fed slowly a	and evenly over the c	utter?
A. Surface planer is	a slow machine.		
B. Fast feeding caus	ses ripples.		
C. The operator is n	ot in a hurry.		
D. Fast feeding will o	consume more ener	gy.	
84. Before sanding, y	ou should		
A. remove the tool re	est		
B. adjust lathe to rur	n at slow speed		
C. prepare small squ	uares of paper for sa	anding	
D. all of the above			
85. Before switching	on the circular saw		
A. see that the blade	e runs free.		
B. check the setting	up.		
C. check the guards	and fence.		
D. all of the above.			
86. When should you	ı built up stock whe	n is be rejected for s	afety?
A. When it is not ma	de of mahogany wo	ood	
B. If the glue is not a	animal glue		
C. If the joints are o	pen or badly glued		
D. All of the above			
	×62,		
87. Only the	is adjusted for dept	th of cut in surface pl	aner.
A. knife			
B. fence			

	C. table				
40	D. guard				
		the following is a sta use a circular saw?	ındard conditio	n for a student be	fore he is
	A. He must s	speak good English			
	B. He must p	oass circular saw safe	ety test		
	C. He must	pass his WAEC exam	ination		
	D. He must	oe a wood work stude	ent		
	89. If circula	r saw is not greased o	or oiled, it may	- Silve	
	A. catch col	d and stop			
	B. be heate	d and get free-wheel	ed		
	C. cause fri	ction that may even h	eat up the part	s or cause them t	o stop
	D. cause the	e operator to save mo	oney spent on t	he grease or oil f	or another thing
	90. Why mus	st a student obtain pe	ermission alway	s before using the	e machine?
	A. Because	the machine is used	always.		
	B. Because	the machine might ha	ave developed	a fault or set diffe	rently.
	C. The princ	ipal comes to the wo	orkshop always.		
	D. The mach	nine is not student's p	oroperty.		

## **TOPIC: THE SURFACE PLANER OR JOINTER**

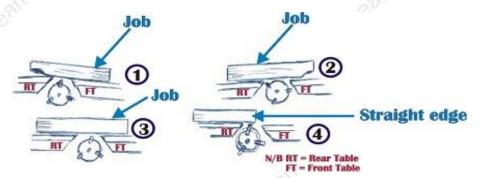
#### **DIRECTION:** Choose the correct answer from the lettered options.

- 1. The depth of cut to be taken will depend on \_\_\_\_\_.
- A. the width of the surface being jointed
- B. the kind of wood and grain pattern
- C. whether you are making a rough or finish cut
- D. all of the above
- 2. The guard is \_\_\_\_\_.
- A. a protective device covering the cutterhead
- B. a supportive device for the work while it is fed
- C. a part of the cutter block
- D. all of the above
- 3. The cutter or blades of the surface planer are secured in slots in a horizontal cylinderical shaft called \_\_\_\_\_\_.
- A. cutter cylinder
- B. cutter block
- C. blade shaft
- D. cutter box
- 4. What part does the arrow labelled '6' point to?



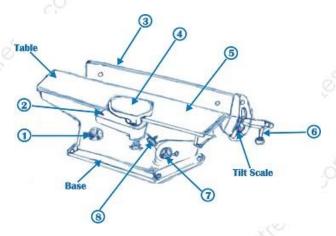
A. Rebating table	
B. Front adjusting wheel	
C. Rear adjusting wheel	
D. French clamp	
5. A long table is desired because	
A. it supports long job better.	
B. it produces true surfaces.	
C. it reduces the load on the operators.	
D. all of the above.	
6. Which of the following is true of the fence?	
A. It can be fixed at 90o	
B. It can be inclined at 45o - 135o	
C. It can be moved across the table	
D. All of the above	
7. As safety measure on the jointer, do all except	
A. adjust the length of cut before the jointer is turned on	
B. see that the guard is in place and operating easily	
C. do not try to make too heavy a cut	
D. use your hand to clean shavings off the table	
8. Operations of the surface planer include	
A. planning chamfers	
B. planning bevels	
C. planning rebates	
D. all of the above	

9. What does the drawing labelled '4' illustrate?



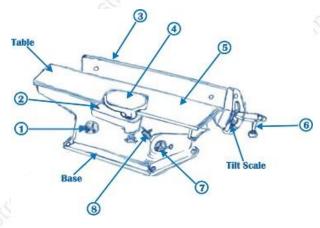
- A. Planning a straight edge
- B. Testing a straight edge
- C. Setting the front table
- D. Setting the knife level with rear table
- 10. A machine that planes a job throughout the length to the same thickness under the surface planer is called \_\_\_\_\_.
- A. surface planer
- B. under surface planer
- C. thicknesser
- D. true planer
- 11. Another name for machine called jointer is \_\_\_\_\_
- A. surface planer
- B. circular saw
- C. drilling machine
- D. lathe machine
- 12. When is the fence inclined to 45° 135°?
- A. When squaring edges
- B. When rebating

C. As support when ch	amfering and bev	eling	
D. When planning flat s	surfaces		
13. The motor is connectutter block.	cted to a pulley ar	nd a belt conr	nects the shaft of the
A. "V" B. "U"			
C. "C"			
D. "S"			
14. When the rear table	is too low,	- 3510	
A. the front of the piec	e will be gouged o	out	
B. the end of the piece	will be gouged o	ut	
C. the middle of the pie	ece will be gouge	d out	
D. all of the above			
15. The guard is	e de		
A. a protective device	covering the cutte	erhead	
B. a supportive device	for the work while	e it is fed	
C. a part of the cutter l	block		
D. all of the above			
16. What part does the	arrow '7' show?		



- A. Depth scale.
- B. Front adjusting wheel.
- C. Rear adjusting wheel.
- D. Fence clamp.

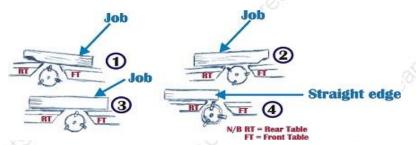
## 17. What type of woodwork machine is drawn?



- A. Circular saw
- B. Mortiser
- C. Surface planer
- D. Thickneser

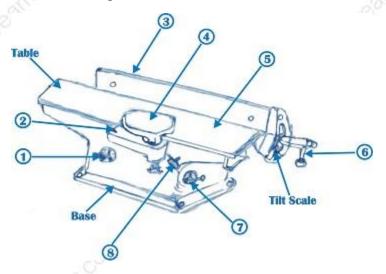
18. A standard surf	ace planer has	adjustable tables.	
A. one			
B. two			
C. three			
D. four			
19. Average length	of table ranges from _	·	
A. 100 - 200mm			
B. 200 - 300mm			
C. 600 - 1200mm	1		
D. 1000 - 3000m	nm		
20. When the rear	table is too high,		
A. the front of the	piece will be gouged o	ut	
B. the end of the p	piece will be gouged ou	ıt 🕬	
C. the middle of th	ne piece will be gouged	lout	
D. all of the above	elshir.		
21. With the thickne	esser, which one of the	following is true?	
A. It has an adjusta	able fence like the surfa	ace planer	
B. The planning is space	done in a rectangular s	space while surface plan	er is on the open
C. The thicknesse	r can reduce wood to a	ny size, length and thick	ness
D. The stock rests planning	on the blade with the t	hicknesser and not the l	olade during

- 22. The depth of cut to be taken will depend on \_\_\_\_\_.
- A. the width of the surface being jointed
- B. the kind of wood and grain pattern
- C. whether you are making a rough or finish cut
- D. all of the above
- 23. What is the illustration of the drawing labelled '2'.

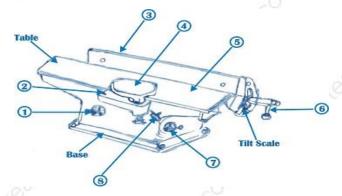


- A. Rear table too high
- B. Rear table too low
- C. Rear table set correctly
- D. Setting knife level with the rear table
- 24. As safety measure on the jointer, do all except \_\_\_\_\_.
- A. adjust the length of cut before the jointer is turned on
- B. see that the guard is in place and operating easily
- C. do not try to make too heavy a cut
- D. use your hand to clean shavings off the table

25. In the diagram, arrow number '2' is called \_\_\_\_\_\_

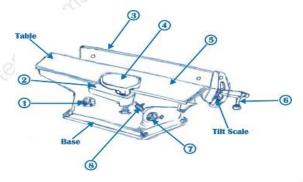


- A. depth scale
- B. rebating table
- C. front table
- D. fence clamp
- 26. Why should the knives of the jointer be kept sharp always?
- A. Sharp knives take away too much wood at a time.
- B. Dull knives tend to cause kickback and bad planning.
- C. Sharp knives are dangerous to the hand.
- D. Sharp knives cause the knife to run fast and bad planning.
- 27. The arrow '8' shows \_\_\_\_\_

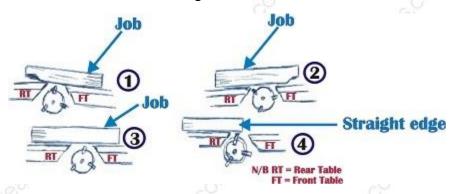


A. depth scale			
B. rebating table			
C. front guard			
D. fence clamp			
28. The cutter or blades of cylinderical shaft called _	of the surface pla	ner are secured in s	slots in a horizontal
A. cutter cylinder			
B. cutter block			
C. blade shaft			
D. cutter box			
29. The out feed table is	the table.		
A. front			
B. back			
C. rear			
D. centre			
30. If a blade projects mo	ore than others, th	ne following will hap	pen except
A. it will plane better, mai	ny blades will spo	il the surface	
B. it will gouge out deepe	er hollow		
C. it may be the only one	cutting		
D. more pronounced ridg	ges will occur		
31. A machine that plane the surface planer is called	-	ut the length to the	same thickness under
A. surface planer			
B. under surface planer			

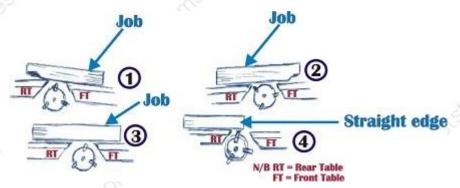
- C. thicknesser
- D. true planer
- 32. A long table is desired because \_\_\_\_\_
- A. it supports long job better.
- B. it produces true surfaces.
- C. it reduces the load on the operators.
- D. all of the above.
- 33. What is the name of the arrow labelled '5'?



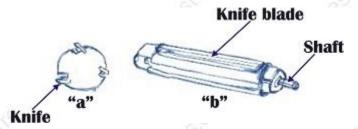
- A. Front table
- B. Rear table
- C. Front guard
- D. Rebating table
- 34. What does the drawing labelled '4' illustrate?



- A. Planning a straight edge
- B. Testing a straight edge
- C. Setting the front table
- D. Setting knife level with rear table
- 35. When is the fence fixed at 90°?
- A. For chamfering
- B. For squaring edges
- C. During rebating
- D. All of the above
- 36. Why is both the front and the end of the drawing labelled '3' not gouged out?

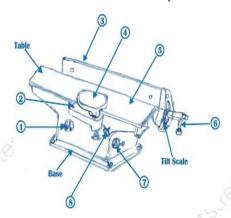


- A. Rear table is set too high
- B. Rear table is set too low
- C. Rear table is set correctly
- D. None of the above
- 37. The jointer accessory drawn is called \_\_\_\_\_.

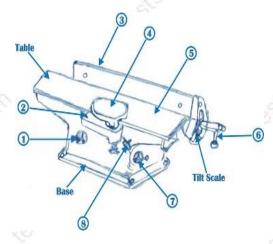


A. knife or cutter				
B. cutter block				
C. push block				
D. cutter guard				
38. The proper proces	dure for cutting a d	eep rebate on the j	ointer include a	ıll except
A. the table is adjuste	ed to the required c	lepth of cut		
B. for this rebate ope	erations, do not rem	ove the guard		
C. two cuts and two s	settings are require	d to remove the was	ste to form the	rebate
D. alternatively, a seri	ies of cuts can be n	nade to remove the	waste	
39. The following are	true of the thicknes	sser except		
A. it has top and unde	er tables			
B. it can plane many	pieces to the same	thickness		
C. it can plane surfac	ce and under the su	ırface		
D. it has two separate	e cutter head so it c	can plane both up a	nd down	
40. Which of the follo	wing is not true of t	the cutterhead?		
A. It is used to set or	reset the fence.			
B. It is known as the h	neart of the jointer.			
C. It consists of the h	nead itself and the k	knives.		
D. The assembly usua	ally operates on two	o roller bearings.		

41. What is the name of the part labelled '3' in the diagram?

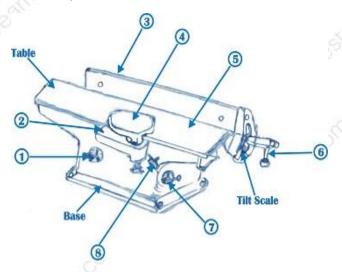


- A. Rear table
- B. Rebating table
- C. Fence
- D. Front guard
- 42. \_\_\_\_ is the part in the diagram numbered '4'.



- A. Rear table
- B. Front guard
- C. Fence
- D. Fence clamp

43. The part of the machine labelled '1' is called \_\_\_\_\_\_

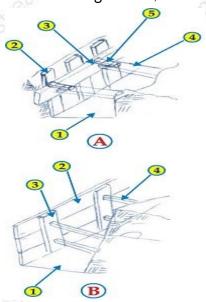


- A. rear table adjustment wheel
- B. front table adjustment wheel
- C. depth scale
- D. rebating table
- 44. \_\_\_\_\_ is the joinery machine used for high speed planning of surfaces and edges.
- A. Band saw
- B. Jack plane
- C. Surface planer
- D. All of the above

# **TOPIC: TIMBERING TO TRENCHES**

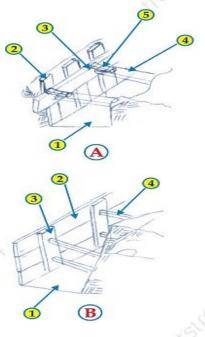
### **DIRECTION:** Choose the correct answer from the lettered options.

- 1. The system of arrangement of the various members used in timbering are influenced by the \_\_\_\_\_.
- A. nature of the soil
- B. depth of excavation
- C. size of the trench
- D. all of the above
- 2. In the drawing shown, "A" is known as \_\_\_\_\_\_



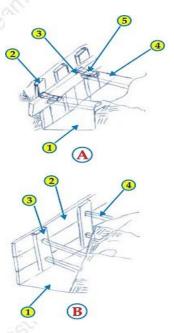
- A. on loose or water logged grounds
- B. on stony ground
- C. for moderately firm ground
- D. all of the above

- 3. Whether is necessary or not depends on the \_\_\_\_\_\_.
- A. depth and nature of soil
- B. depth of trench only
- C. nature of soil only
- D. tool for the excavation
- 4. Timbering of trenches is done to \_\_\_\_\_.
- A. strengthen the foundation
- B. beautify the trenches with timbers
- C. prevent the trench sides from collapsing
- D. prevent the concrete from collapsing
- 5. The arrow '2' in the drawing shown is known as \_\_\_\_\_.



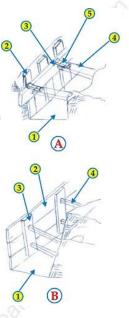
- A. waling
- B. poling board
- C. strut
- D. trench

6. The arrow '4' in the drawing shown points at the \_\_\_\_\_.

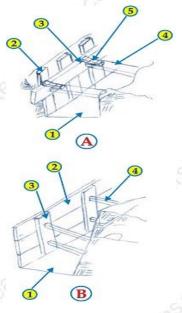


- A. waling
- B. sheating
- C. strut
- D. trench

7. The part labelled '5' in the drawing shown is timber called \_\_\_\_\_

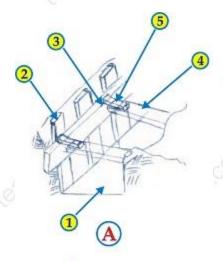


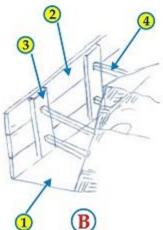
- A. strut
- B. waling
- C. poling board
- D. lipblock
- 8. Where the trench is shallow, the sides of the trench need to be \_\_\_\_\_\_.
- A. timbered
- B. battered
- C. cemented
- D. opened
- 9. In which of the following is needed to do all except \_\_\_\_\_
- A. saw
- B. hammer
- C. wood
- D. chisel
- 10. In drawing shown, 'B' is the on \_\_\_\_\_



- A. loose soil
- B. stony soil
- C. firm soil
- D. all of the above

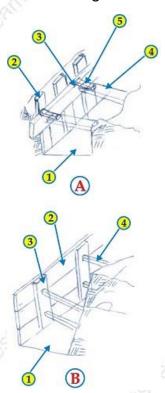
11. In drawing shown, the arrow '1' is called \_\_\_\_\_.





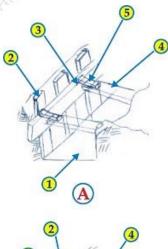
- A. waling
- B. poling board
- C. strut
- D. trench

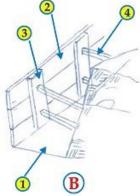
12. In drawing shown, "A and B" illustrates \_\_\_\_\_



- A. timber seafold
- B. timber foundation
- C. timbering to trenches
- D. steps to trenches
- 13. The purpose of includes to prevent \_\_\_\_\_.
- A. the sides of trenches from collapsing
- B. workman from being buried in when the trench will collapse
- C. tools from being covered because of collapse
- D. all of the above

14. The part labelled '3' in the drawing shown is called \_\_\_\_\_.





- A. waling
- B. sheating
- C. strut
- D. trench

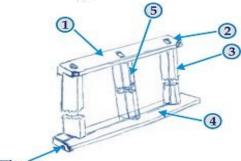
15. When the sides of foundation trenches are supported with timbers, it is said to be

- A. timber foundation
- B. timbering to trenches
- C. walling trenches
- D. all of the above

# **TOPIC: WINDOWS**

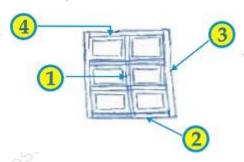
## DIRECTION: Choose the correct answer from the lettered options.

1. In the diagram, the part labelled '3' is called \_\_\_\_\_.



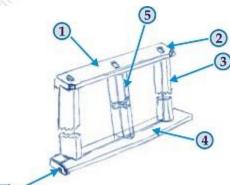
#### Throat

- A. horn
- B. stile
- C. sill
  - D. mullion
  - 2. What part is labelled '4' in the drawing shown?



- A. Bottom rail
- B. Stile
- C. Sash bar
- D. Top rail

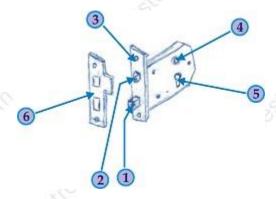
3. The part with the arrow '4' is called \_\_\_\_\_\_



#### Throat

- A. stile
- B. mullion
- C. sill
- D. transom
- 4. Windows are pivoted \_\_\_\_\_
- A. as louver
- B. horizontally
- C. vertically
- D. all of the above
- 5. \_\_\_\_\_ is a spring action bolt or tongue held in a case which slide automatically and catch a striker plate by means of handle or knob attached to a spindle.
- A. Escutcheon
- B. Coach Bolt
- C. Latch
- D. Lock

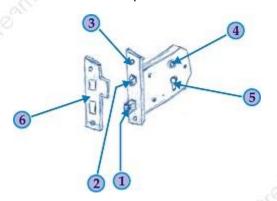
- 6. The day light size is measured from the \_\_\_\_\_.
- A. outside edges of the frame
- B. innermost edges of the frame
- C. the inside edges of the top and bottom
- D. all of the above
- 7. \_\_\_\_\_ is required over the heads and under the sills to prevent moisture penetrating the internal wall.
- A. Cladding
- B. Flashing
- C. Elbow lining
- D. Window board
- 8. Which of the arrows points to the keyhole?



- A. "3"
- B. "4"
- C. "5"
- D. "6"

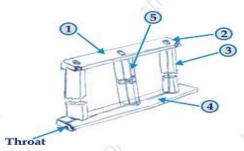
9. It is required that a good w	vindow shall		
A. be weather proof			
B. control solar radiation and	d control heat		
C. control daylight (allow ligh	nt but prevent glare)		
D. all of the above			
10 window consists or grooves cut in the stiles of a	f a number of stripes of solid frame.	glass or blades fitte	d into
A. Casement			
B. Awning			
C. Pivoted			
D. Louver			
11. The diagram represents	·		
1 2	3		
A. types of framings			
B. types of mouldings			
C. types of			
D. types of			
12 furniture has lever	handles and plates with	nout latches.	
A. Latch			
B. Rim lock			
C. Lock			
D. All of the above			

13. The arrow '3' points to the \_\_\_\_\_



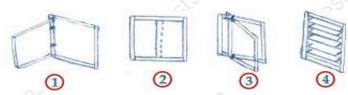
- A. striker plate
- B. forend
- C. lock bolt
- D. latch bolt

14. What is the name of the arrow '2' in the diagram shown?



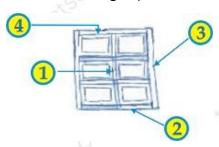
- A. Horn
- B. Sill
- C. Mullion
- D. Stile

15. In the diagram, the part with the arrow '1' is called \_\_\_\_\_ window.

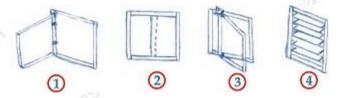


A. louver

- B. sliding
- C. pivoted
- D. casement
- 16. The drawing represents window sash frame of \_\_\_\_\_ light sash.

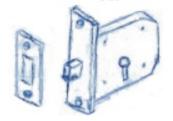


- A. two
- B. three
- C. six
- D. seven
- 17. What type of window is in the drawing labelled '3'?

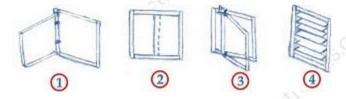


- A. Louver
- B. Casement
- C. Sliding
- D. Pivoted
- 18. \_\_\_\_ divides the frame vertically in the drawing.
- A. Stile
- B. Mullion
- C. Sill

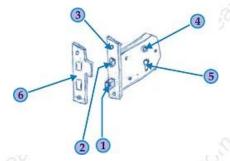
- D. Head
- 19. The drawing is a \_\_\_\_\_ lock.



- A. rebate dead
- B. mortise dead
- C. surface rim
- D. mortise live
- 20. The drawing labelled '2' is called \_\_\_\_\_ window.

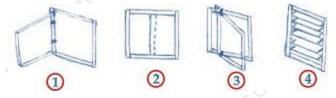


- A. louver
- B. casement
- C. sliding
- D. pivoted
- 21. The part labelled '4' in the drawing is called \_\_\_\_\_.



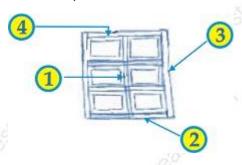
A. hole for spindle		
B. key hole		
C. forend		
D. striker plate		
22. The main functions	of a window include all except	·
A. to admit light to the	rooms	
B. a safe means of acc	cess and egress to the rooms	
C. for ventilation		
D. to beautify and prov	vide an external view	
23 light describe pivoted.	es a window or part of it which can	be opened being hinge
A. Fixed		
B. Fan		
C. Opening		
D Dark		

24. What type of window is in the drawing labelled '4'?



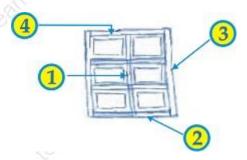
- A. Louver
- B. Sliding
- C. Pivoted
- D. Hinged

- 25. A member of the window frames that divides the window horizontally is called
- A. muntin
- B. mullion
- C. transom
- D. stile
- 26. What part is labelled '3' in the drawing?



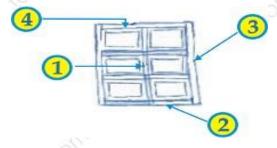
- A. Bottom rail
- B. Stile
- C. Sash bar
- D. Top rail
- 27. \_\_\_\_\_ is an opening formed in a wall to admit light and ventilation to rooms.
- A. Door
- B. Window
- C. Verandah
- D. Passage

28. The part labelled '2' in the drawing is called \_\_\_\_\_\_.



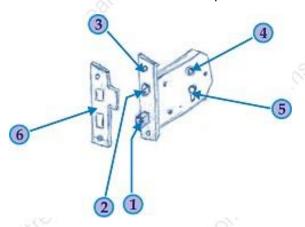
- A. bottom rail
- B. stile
- C. sash bar
- D. top rail
- 29. Hopper sashes of the awning or hopper window are hinged at the \_\_\_\_\_ and opens inward.
- A. bottom
- B. top
- C. side
- D. all of the above
- 30. The two types of louver include \_\_\_\_\_\_
- A. fixed and sliding
- B. fixed and pivoted
- C. fixed and adjustable
- D. adjustable and sliding
- 31. Casement have all except \_\_\_\_\_.
- A. provide maximum ventilation
- B. difficult to make weather proof if on the side of the weather
- C. fly screens are fitted inside when the sash opens outward

- D. does not provide maximum ventilation
- 32. For fire safety public building should open \_\_\_\_\_.
- A. upwards
- B. downwards
- C. inwards
- D. outwards
- 33. The position of by are all except \_\_\_\_\_ hung.
- A. centre
- B. top
- C. side
- D. bottom
- 34. A latch set consists of \_\_\_\_\_
- A. latch, lever handles and plates
- B. latch, and
- C. latch, and stays
- D. handles, bolts and
- 35. The part labelled '1' in the window sash frame is called \_\_\_\_\_.

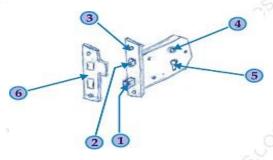


- A. bottom rail
- B. stile

- C. sash bar
- D. top rail
- 36. What is the name of the part labelled '6'?

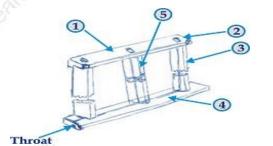


- A. Escutcheon
- B. Rammer face
- C. Stapple pin
- D. Striker plate
- 37. The drawing illustrates parts of a \_\_\_\_\_.



- A. mortise lock
- B. catch
- C. rim lock
- D. drawer lock

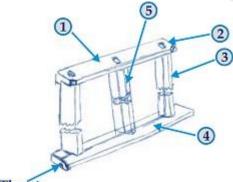
## 38. The diagram represents \_\_\_\_\_.



- A. wall rack
- B. door frames
- C. window frames
- D. picture frames
- 39. Which of the following is not a functional requirement of a window?
- A. Acoustic purposes
  - B. Security purposes
  - C. Escape root function
  - D. Thermal performance function
  - 40. \_\_\_\_\_ is the internal sill fixed to the window frame sill.
  - A. Flashing
  - B. Window board
  - C. Elbow lining
  - D. Cladding
- 41. A lock set consists of \_\_\_\_\_
- A. lach, lever handles and plates
- B. lock, lever handles and plates
- C. knobs, and keys
- D. lever handles and plates

46	$_{ extstyle  e$	me
not wide en	nough to reach the internal wall linings.	

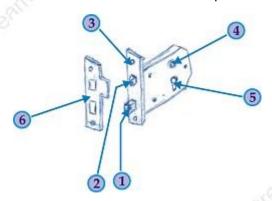
- A. Flashing
- B. Window board
- C. Elbow lining
- D. Single lights
- 47. The part with the arrow '5' is called \_\_\_\_\_.



#### Throat

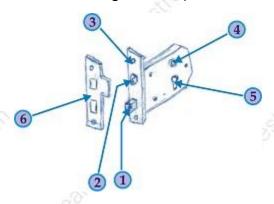
- A. stile
- B. mullion
- C. sill
- D. transom
- 48. \_\_\_\_\_ window is hinged at the sides to open inward or out ward.
- A. Casement
- B. Awning
- C. Pivoted
- D. None of the above

49. What is the name of the part labelled '2'?



- A. Striker plate
- B. Forend
- C. Lock bolt
- D. Latch bolt

50. In the diagram, the part labelled '1' is called \_\_\_\_\_.



- A. striker
- B. key hole
- C. lock bolt
- D. latch bolt

51. In the diagram, the part with the arrow '1' is called Throat A. horn B. sill C. mullion D. head 52. \_\_\_\_\_ lights are a form of casement window in which the sash is being hinged to a transform above a door or window so that it opens inwards to admit ventilation. A. Open B. Fan C. Fridge D. Bulb 53. \_\_\_\_\_light describes a window or part of it in which glass is fixed so that no part of the glazing can be opened. A. Fixed B. Fan C. Opening

D. dark

54. The drawing is a type of	of door called
	A STATE OF THE STA
A. pivoted	
B. sliding	
C. hinged	
D. awning	
55 window runs o	n the window cill from left to right hand side
A. Casement	
B. Sliding	
C. Awning	
D. Pivoted	
elship.	
56. A window can be fixed	by
A. being hinged	
B. being pivoted	
C. sliding	
D. all of the above	
57. Some and latches are r	not reversible and so must be ordered as
A. top and bottom	
B. right and left hand	
C. top and right hand	
D. bottom and left hand	

om the edges of the frame.
sh stiles and jambs or mullions so that each

# **ANSWERS**

# **TOPIC: ADHESIVE**

#### DIRECTION: Choose the correct answer from the lettered options.

A urea formaldehyde (U. F.) powder resin and a hardener already mixed together as a shelf life between
A. 1 – 2 months
3. 2 - 4 weeks
C. 1 - 2 years
D. 2 - 4 days
The correct answer is option [C]
is a type of protein adhesive which is the powdered extract from the curd of skin milk.
A. Vegetable protein adhesive
3. Casein glue
C. Fish glue
D. Chemical glue
he correct answer is option [B] Solution: Casein glue is extracted from the curds of kin milk.
. When mixing the resin and the hardener, it should be measured
A. according to the wood workers desire
3. according to the maker's instructions
C. according to the size of mixing pot
D. all of the above
The correct answer is option [B]

4. Assembly time of P.V.	A. (Polyvinyl Acetate	e) is from	
A. 2 - 5 seconds			
B. 10 - 20 seconds			
C. 10 - 20 minutes			
D. 10 - 20 hours			
The correct answer is o	ption [C]		
5 is a substance	e used to bond two	surfaces together.	
A. Polish			
B. Abrasive			
C. Dowel			
D.			
The correct answer is o	ption [D]		
55,51			
6. Characteristics of ani	imal glue include all	except	
A. it must be used hot o	or cold		
B. it may be attacked b	y mould and fungi		
C. it is non-inflammable	e and non-toxic		
D. it can be stored inde	efinitely if kept cool a	and dry	
The correct answer is of or cold.	ption [A] Solution: a	animal glue can only be	used hot not hot
7. For application of ani	mal glue, you need t	00	
A. apply hot with brush	or heated glue spre	ader	
B. warm the parts to be	glued during cold w	veather	
C. remove surplus glue	with hot water		
D. all of the above			
The correct encurer is a	ention IDI		

8. Epoxy resin is used to bond	
A. wood to wood, wood to metal	
B. metal to metal, metal to china	
C. wood to plastic, wood to glass	
D. all of the above	
The correct answer is option [D]	
9. The steps in preparation of ready mixed casein for use are	
A. 1. Add the powder to the cold water	
2. Stir mixture until it thickens	
3. Allow to stand while reactions take place	
4. After standing the mixture thins, stir again	
B. 1. Add the powder to cold water	
2. Allow to stand while reactions take place	
3. After standing the mixture thins, stir again	
4. Stir mixture until it thickens	
C. 31. Stir mixture until it thickens	
2. Add the powder to cold water	
3. Allow to stand while reactions take place	
4. After standing the mixture thins, stir again	
D. all of the above	
The correct answer is option [A]	

10 assembly time is the period during which adjustments are possible beforamping.	fc
A. Open	
B. Wet	
C. Closed	
D. Dry	
The correct answer is option [C] Solution: Closed assembly is the period that adjustments are made before final cramping.	
11. Which of the following is not true of P.V.A. (Polyvinyl Acetate) adhesive?	
A. They are usually white or cream liquids	
B. They are used without further preparation	
C. Storage life is about one month	
D. Obtainable in plastic tubes and squeeze jars	
The correct answer is option [C] Solution: P.V.A. (Polyvinyl Acetate) adhesive storage life is unlimited.	
12. Pot life of glue depends on	
A. harder used and the prevailing temperature	
B. workshop used	
C. method used in mixing the glue	
D. who mixed the glue	
The correct answer is option [A]	
The conect answer is option [A]	
13. A urea formaldehyde (U. F.) viscous resin shelf life is between	
A. 3 - 6 days	
B. 3 - 6 weeks	
C. 3 - 6 months	
D. 3 - 6 years	

# The correct answer is option [C]

14. Types of synthetic resin adhesive include all except	
A. urea formaldehyde	
B. melamine formaldehyde	
C. blood albumin glue	
D. epoxy glue	
The correct answer is option [C]	
14. Types of synthetic resin adhesive include all except	
A. urea formaldehyde	
B. melamine formaldehyde	
C. blood albumin glue	
D. epoxy glue	
The correct answer is option [C]	
16. Glue bleeds when	
A. the woodworker cries because of glue	
B. there is excess glue dropping from the joints	
C. the joint is turn during gluing and cramping	
D. all of the above	
The correct answer is option [B]	
17. Phenol formaldehyde resin (P.F.) is characterized by all except	
A. it requires cold setting	
B. it requires pressing and heating at 100 - 135oC to set	
C. it is used for water proof plywood	

D. it consist of a brownish powd with water	der or liquid resin with a powder filler	mixed together
The correct answer is option [A]	1	
~20°		
18. Which of the following is not	true with melamine formaldehyde re	sin (M.F.)?
A. Sets by polycondensation		
B. Used for waterproof joints		
C. Used for non-heat proof-bor	nding	
D. Used for producing plastic la	aminate	
The correct answer is option [C]	1 tstreams	
19. Lime (calcium hydroxide) is a	added to casein to	
A. make it toxic to moulds or fur	ngi	
B. make casein set quickly		
C. improve the water resistance	e of the glue joint	
D. improve the shelf life		
The correct answer is option [C]		
20 is the time it takes the applied to the job.	he glue to reach a maximum strengtl	h after being
A. Cramping time		
B. Pot life		
C. Assembly time		
D. Setting time		
The correct answer is option [D] reach maximum strength.	] Solution: Setting time is the time	it takes glue to
21. Characteristics of epoxy resi	n include	
A. applied cold above 15oC, nor	n-staining	

B. give an extremely strong bond	d between materials, not thermo-plastics	
C. it is waterproof and heatproof	f street	
D. all of the above		
The correct answer is option [D] gap fillings.	Solution: All the above including shock resisting and	′
22. The characteristics of resorci	inol formaldehyde include all except	
A. used cold and non-staining		
B. used hot and staining		
C. makes wood to wood waterpr	oof bond	
D. resistant to solvents, heat and	d moulds	
The correct answer is option [B]		
23. The synthetic resin		
A. are of organic origin		
B. it's harder solidifies by chemic	cal reaction	
C. of polymerization characterist	tics	
D. all of the above		
The correct answer is option [D]		
24. Which of the following is true	to the characteristics of urea formaldehyde?	
A. It is staining and non-heat res	sisting	
B. It is non-staining and fairly he	at resisting	
C. It is non-staining but resistant	t to fungi	
D. It is non-resistant to fungi but	: staining	

The correct answer is option [B] Solution: U.F. adhesive is non-staining, fairly heat

resisting and resistant to fungi.

25. Precaution while using synthetic resin glue does not include
A. irritation of the skin occurs with the glue
B. glue splashes are hard to wash out if set
C. use brushes with metal ferrule for mixing the glue
D. synthetic resin stains if in contact with metal ferrules
The correct answer is option [C]
Solution: use brushes without metal ferrules.
26. The following is true of Epoxy resin except
A. mixed adhesive is only usable for about 1/2 - 1 hour at 20oC
B. maximum strength takes about 1 month
C. assembly time is a few minutes to 1 hour and cramped up to 48 hours
D. surplus glue is removed before it sets with lacquer thinners
The correct answer is option [B] Solution: epoxy attains maximum strength about one week and not one month.
27. The joint is starved of glue when
A. heat is used to accelerate setting time
B. the joint is overfilled with protein glue
C. the joint has little or no joint as a result of too much cramping
D. all of the above
The correct answer is option [C]
28. Application of P.V.A (Polyvinyl Acetate) involves
A. applied cold and spread with brush or serrated spreader
B. dries by polycondensation
C. assembled while the glue is still wet
D. attain maximum strength in about 12hours

evaporation of the water.	X/SO	artis.
29 assembly time is of members together.	the time allowed between applyi	ng the glue and fitting
A. Open		
B. Wet		
C. Closed		
D. Dry		
The correct answer is option [.	4j	
30. Animal glue is gotten from	C xest	
A. hide trimmings		
B. bones		
C. sinews and intestines		
D. all of the above		
The correct answer is option [	DJ (Alakara)	
31. A urea formaldehyde (U. F.)	white powder resin shelf life is k	oetween
A. 1 - 2 days		
B. 1 - 2 weeks		
C. 1 – 2 months		
D. 1 - 2 years		
The correct answer is option [	DJ (	

The correct answer is option [B] Solution: P.V.A. (Polyvinyl Acetate) dries by

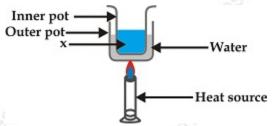
32. The length of time the glue remain	n unusable after mixing is o	called
A. shelf life		
B. setting time		
C. assembly time		
D. pot life		
The correct answer is option [D]		
33. The type of casein mix which conspowder form ready to be added to co		
A. ready		
B. wet		
C. water		
D. chemical		
The correct answer is option [A]		
34. Glue pot consists of		
A. outer pot only which contains the	water	
B. inner pot only which contains the	soaked glue	
C. water and the glue which are heat	ted by heating source	
D. outer and inner pot with water and	d glue respectively	
The correct answer is option [D] So contains the water to be directly hear		of outer pot which
xeststreams.co		
35 synthetic resin adhesive s'polycondensation'.	set by chemical reaction is	s known as
A. Polyvinyl Acetate (P.V.A.)		

В. Ероху	
C. Resorcinol formaldehyde	
D. All of the above	
The correct answer is option [A]	1 × Ø
36. The application of impact ac	lhesive involves
A. coating both surfaces	
B. allow to dry a little before ass	sembling
C. once both surfaces touch, ac	dhesion takes place
D. all of the above	
The correct answer is option [D]	
37. With contact glue, which of t	he following statements is not true?
A. Made by dissolving synthetic	rubber in solvents and adding fillers
B. It dries by polymerization	
C. Shelf life is over one year	
D. Phenol is often added and a	e thinned with pure toluol
The correct answer is option [C solvent which is highly inflamma	Solution: Contact glue dries by evaporation of the ble.
38 resin consist of a rehardener.	eddish brown liquid resin plus liquid or powder
A. Casein adhesive	
B. Urea formaldehyde	
300	
C. Resorcinol formaldehyde	
D. Epoxy	7
The correct answer is option [C	/

- 39. Can be used to bond \_\_\_\_\_.
- A. wood to wood
- B. wood to plastic
- C. wood to metal
- D. all of the above

The correct answer is option [D]

40. The drawing represents \_\_\_\_\_ pot.



- A. glue
- B. water
- C. polish
- D. glue mixing

The correct answer is option [A]

- 41. After mixing the urea formaldehyde (U.F.), apply to job by \_\_\_\_\_
- A. combining the resin and hardener as one liquid and spreading on both parts
- B. applying the liquid resin to one member and the liquid hardener to another
- C. assembling the work while the is still moist
- D. all of the above

The correct answer is option [D]

42. Casein adhesive is used for	— arris
A. interior gluing assembly	
B. plywood and caul veneering	
C. gluing laminates and laminated be	ending
D. all of the above	
The correct answer is option [D]	
43. Urea Formaldehyde (U.F.) adhesi	ve is used for
A. caul and cold press veneering	
B. plywood manufacture	
C. production of particle board	
D. all of the above	
The correct answer is option [D]	
-StSII	
44. Casein adhesive can attain a max	imum strength for about
A. 30 minutes	
B. 1 day	
C. 1 week	
D. 1 month	
The correct answer is option [C]	
45. The steps in preparing animal glu	e is as follows
A. soak, break and heat	
B. heat, break and soak	
C. break, soak and heat	
D. all of the above	
The correct answer is option IC1	

46. Types of protein are	
A. animal glue	
B. casein glue	
C. vegetable protein glue	
D. all of the above	
The correct answer is option [D]	
47. Types of include	
A. protein	
B. synthetic resin	
C. contact	
D. all of the above	
The correct answer is option [D]	
Stell Stell	
48. Types of casein glues are	
A. hot and cold mixed	
B. ready and wet mixed	
C. natural and artificial mixed	
D. ready and dry mixed	
The correct answer is option [B]	
49. All the following are true to resorcinol formaldehyde except	ot
A. for dense hardwoods 40 - 650 gives better bonding	
B. maximum strength is attained in about 5 - 8 weeks	
C. too much pressure may produce a starved joint	
D. 1/2 - 1hour assembling and about 16 - 24hours cramping t	ime is allowed
The correct answer is option [B]	

50. Animal glue is also called glue.
A. contact
B. hide
C. cement
D. all of the above
The correct answer is option [B]
51. Which of the precaution is not true to animal glue?
A. Use clean containers
B. It should run freely from the brush without breaking into drops
C. Animal glue should be allowed to boil
D. Parts of the joints must be clean and dry
The correct answer is option [C]
Step.
52. P.V.A. (Polyvinyl Acetate) is not used
A. for general assembly woodwork
B. for rubbed glued joints
C. where excessive moisture is possible
D. for fixing wood and plastics to porous surfaces
The correct answer is option [C]
53. Contact are also known as
A. impact
B. compact
C. plastic adhesive
D. all of the above
The correct answer is option [A]

54. Vegetable protein glue is m	nade from the residue afte	r extracting the oil from
<u></u>		
A. soya beans		
B. peanuts		
C. cotton seeds		
D. all of the above		
The correct answer is option [D	)]	
FF The Conservation in the Later In-	6 to the constant of the few sites	50°
55. The time a job should be le known as	it in the cramps before the	ey can be sately removed is
A. setting time		
B. assembly time		
C. cramping time		
D. shelf life		
The correct answer is option [0	CI &	
No.	, CO,	
56 mixed casein is a mixed separately with water, an special mixing machines.		
A. Ready		
B. Wet		
C. Chemical		
D. Water		
The correct answer is option [E	8]	
57 is the length of time mixing.	e a glue can be stored be	tween manufacture and
A. Setting time		
B. Assembly time		

D. Pot life				
The correct answer is remains in the market	•	ıtion: Shelf life is	s the time a man	ufactured glue
58. The advantages o	of casein glue ov	ver animal glue i	nclude all excep	ot casein glue
A. is prepared cold ar	nd used cold			
B. is prepared hot and	d used hot			
C. sets due to chemic animal glue	cal action, heat a	accelerates dryir	ng, whereas it wo	ould remelt
D. is fairly water resist	ant but not wate	er proof		
The correct answer is and used hot.	option [B] Solu	ution: it is the an	imal glue that is	prepared hot
. K. S. K.				
59. Qualities of a good	d animal glue inc	clude all except .		
A. it swells when soak	ed in water but	does not dissolv	re 💢	
B. it swells and dissolve	ves when soake	d in water		
C. it is clear and free	from specks of a	dirt		
D. it should set hard in	n the joint after	drying		
The correct answer is does not dissolve in w	•	ution: a good an	imal glue swells	in water but
60 resin is ar when mixed with a har		d viscous liquid	which sets by p	olymerization
A. Epoxy resin				
B. Phenol formaldehy	de resin			
C. Polyvinyl acetate				
D. Urea formaldehyde	)			
The correct answer is	option [A]			

C. Shelf life

61. Casein glue are left in cra	amps for about	
A. 30 minutes		
B. 1 hour		
C. 4 hours		
D. 1 week		
The correct answer is option		
62. Animal glue is sold by wei	ight in all except	
A. cakes		
B. powder form		
C. sheets		
D. liquid form		
The correct answer is option	[D]	
-81511		
63 are produced by with water.	reacting acetylene and acetic acid an	d then emulsifying
A. Epoxy resin		
B. Phenol formaldehyde		
C. Polyvinyl acetate (P.V.A.)		
D. Casein		
The correct answer is option	[C]	
64. Protein is what form of ad	dhesive?	
A. Natural		
B. Artificial		
C. Natural and artificial		
D. Metal		
The correct answer is option	[A] Solution: Protein are natural.	

65. When should the coated sur	irfaces be assembled?	
A. Immediately the two surfaces	s are coated	
B. Immediately one surface is co	oated	
C. When it is tack free when tou	uched	
D. After two hours of coating the	ne surfaces	
The correct answer is option [C]		
66. Some chemicals added to m	nake casein dissolve in cold water include	<u> </u>
A. Sodium Fluoride and Borax		
B. Formaldehyde and Gypsum		
C. Iron carbon and Silicon		
D. All of the above		
The correct answer is option [A] Phosphate are added to casein	] Solution: Sodium fluoride, Borax and even Sons so it can dissolve in water.	odium
67. Contact glue is used in all ex	xcept	
A. for general joinery work		
B. for veneering ends and edge	es of panels	
C. for bonding decorative plasti	ics, fabrics, leather etc.	
D. bonding glass to plywood, wo	ood to wood	
The correct answer is option [A]		
68. Precaution in the use of anin	mal glue include	
A. always use animal glue hot		
B. consistency must be right		
C. apply glue to both parts of th	he job	
D. all of the above		
The correct answer is option [D]		

69. Come in			
A. natural form only			
B. natural and artificial forms			
C. artificial form only			
D. mechanical form			
The correct answer is option [B]			
70. Types of casein glue include	glue.		
A. acid and epoxy			
B. lactic and acid			
C. hide and acid			
D. hot and cold			
The correct answer is option [B]			
-st <sup>still</sup>			
71 is the term used to d	describe the	process of setti	ng or hardening of.
A. Bonding			
B. Curing			
C. Moulding			
D. Set hardening			
The correct answer is option [B]			
72. In order to achieve good pen following should not be done?	etration of th	ne glue into the	wood, which of the
A. Apply the glue when it has set	t a little		
B. Mixing should be right consist	tency not too	o thick	
C. Don't starve the joints by mak	ing the glue	too light	
D. The glue has to be liquidly ho	t		

73. The best material for the glue	pot is	<b>_</b>	
A. enamel			
B. glass			
C. earth ware mixing pot			
D. all of the above			
The correct answer is option [D]			
74. Characteristics of P.V.A. (Poly	vinyl Acetate) g	Jlue include all exce	ept
A. easy to use			
B. applied hot			
C. non-staining unless in contac	t with metal		
D. non-inflammable, non-toxic			
The correct answer is option [B] applied cold.	Solution: P.V.A.	. (Polyvinyl Acetate	) is used and
75. Holding power of animal glue	depends on th	e	
A. brush used			
B. timber used			
C. penetration of the glue into the	ne wood		
D. the time of the day on which g	glue was applied	1 50	
The correct answer is option [C]			
al Still			
76. Which of the following is the	correct order of	manufacturing cas	ein glue?
A. Precipitating the casein, dryin		_	

The correct answer is option [A] Solution: For a good penetration, do not apply the

glue when it has started setting.

B. Washing the curd, precipitating the casein and drying the curd.

C. Drying the curd, washing the co	and precipitating the casem.	
D. Precipitation the casein, washi	ng the curd and drying the curd.	
The correct answer is option [D]		
77. Animal glue is used in all excep	pt	
A. external woodworking		
B. internal cabinet work		
C. plywood making and work		
D. book binding		
The correct answer is option [A]	Solution: Animal glue is not good for e	external use.
78. The two types of assembly times	ne includes	
A. fast and slow assembly		
B. open and closed assembly		
C. hot and cold assembly		
D. dry and wet assembly		
The correct answer is option [B]		
79. Synthetic resin are		
A. natural		
B. artificial		
C. natural and artificial		
D. none of the above		
The correct answer is option [B]		
×63		

## **TOPIC: CENTERS AND CENTERINGS**

#### DIRECTION: Choose the correct answer from the lettered options.

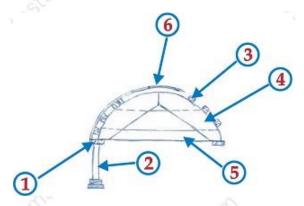
- 1. Which member of the Centre is placed across the lower part to prevent the Centre from spreading out when it is carrying the weight of the arch?
- A. Wedge
- B. Rib
- C. Tie
- D. Prop

The correct answer is option [C]

- 2. In the construction of a concrete arch Centre, which of the following knowledge is not important?
- A. The crown of the arch
- B. The rise of the arch
- C. The voussoirs of the arch
- D. The span of the arch

The correct answer is option [C] Solution: Voussoirs are the body of the arch in brick form not concrete.

3. What is the name of the part labelled '2' in the drawing shown?



A. Prop

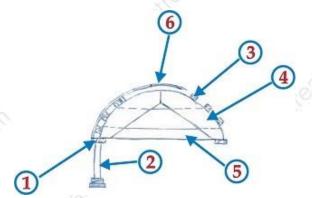
- B. Bearer
- C. Tie
- D. Lagging

The correct answer is option [A]

- 4. Parts of Centre for arches may include \_\_\_\_\_
- A. brace
- B. folding wedges
- C. sole plate
- D. all of the above

The correct answer is option [D]

5. The arrow number '5' in the drawing shown is known as \_\_\_\_\_



- A. rib
- B. bearer
- C. wedges
- D. lagging

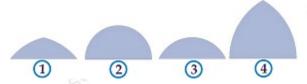
The correct answer is option [D]

- 6. The concrete is poured on the part of the Centre called \_\_\_\_\_.
- A. lagging

the

B. tie		
C. head tree		
D. rib		
The correct answer is opwet concrete.	ption [A] Solution: Lagging especi	ially of plywood, carries
7. A piece of wood which under construction is ca	h has the actual shape of the arch lalled piece.	used to support arch
A. lagging		
B. supporting		
C. turning		
D. all of the above		
The correct answer is of	otion [C]	
8 point is the Cer	ntre point from which the curve of t	he arch is drawn.
A. Centre		
B. Arch		
C. Turning		
D. Striking		
The correct answer is open distance is from the strip	ption [D] Solution: Striking point, the king point to the arc.	e radius of the arch
9. The type of formwork	made for casting concrete arches	on is called concrete
·		
A. mould		
B. centres		
C. box		
D. holders		
The correct answer is of	ption [B]	

10. The drawing shown, '3' is a type of arch called \_\_\_\_\_ arch.



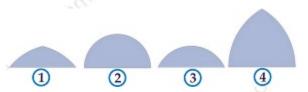
- A. semi-circular
- B. segmental
- C. half elliptical
- D. equilateral

The correct answer is option [B]

- 11. Types of laggings for arch centers can be \_\_\_\_\_\_
- A. long or short
- B. open or closed
- C. thin or thick
- D. wide or narrow

The correct answer is option [B]

12. The drawing shown, '2' is called \_\_\_\_\_.



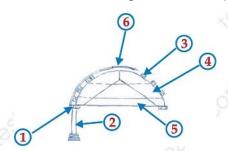
- A. semi-circular arch
- B. segmental arch
- C. half elliptical arch
- D. equilateral arch

The correct answer is option [A]

- 13. The arch Centre in the drawing shown, '4' is called \_\_\_\_\_ arch.
- A. equilateral
- B. segmental
- C. triangular
- D. semi-circular

The correct answer is option [A]

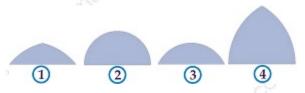
14. In the drawing shown, the part labelled '1' is called \_\_\_\_\_.



- A. bearer
- B. tie
- C. rib
- D. lagging

The correct answer is option [A]

15. The drawing shown, '1' is a type of arch called \_\_\_\_\_.

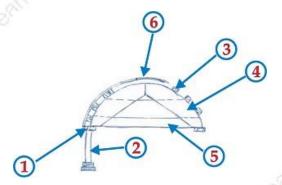


- A. semi-circular arch
- B. segmental arch
- C. half elliptical arch
- D. equilateral arch

The correct answer is option [C]

16 is the highest point of	f the arch at which the key brick is pla	iced.
A. Crown		
B. Span		
C. Rise		
D. Extrados		
The correct answer is option [A] striking point.	Solution: The crown is the highest p	oint from the
	arch Centre that spans the opening h	nolding the ribs
is called		
A. lagging		
B. tie		
C. head tree		
D. rib		
The correct answer is option [B]		
18 is the small pieces fixe	ed across the ribs to carry the vousso	irs.
A. Ties		
B. Laggings		
C. Bearers		
D. Props		
The correct answer is option [B]		

19.  $\underline{\hspace{1cm}}$  is the part with arrow '3' in the drawing.



- A. Prop
- B. Bearer
- C. Tie
- D. Lagging

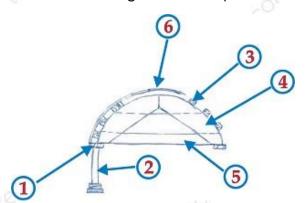
The correct answer is option [C]

20. The timber underneath the ties that prevent the ribs from spreading apart and at the same time carrying the weight of the centre and the arch is called \_\_\_\_\_.

- A. bearers
- B. struts
- C. wedges
- D. ribs

The correct answer is option [A]

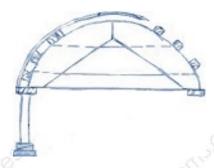
22. In the drawing shown, the part labelled '4' is called \_\_\_\_\_\_



- A. bearer
- B. rib
- C. wedges
- D. lagging

The correct answer is option [B]

23. What type of drawing is shown?



- A. Semicircular roof
- B. Umbrella shade
- C. Semicircular arch
- D. Semicircular staircase

The correct answer is option [C]

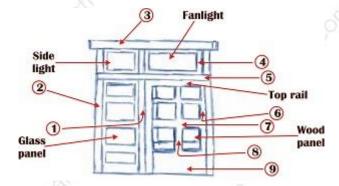
- 24. The parts of centres for arches does not include \_\_\_\_\_
- A. ties
- B. ribs
- C. nogging
- D. lagging

The correct answer is option [C] Solution: Nogging is for ceiling but lagging is for centers.

# **TOPIC: DOORS**

#### DIRECTION: Choose the correct answer from the lettered options.

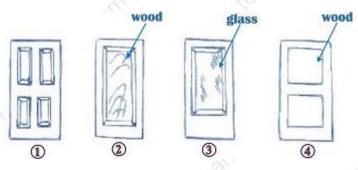
### 1. What is arrow '8' called?



- A. Stile
- B. Middle rail
- C. Muntin
- D. Jamb

The correct answer is option [C]

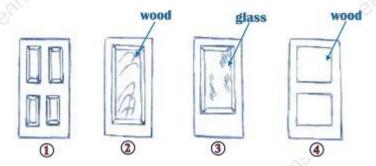
## 2. Which of the drawings is one glass paneled door?



- A. "1"
- B. "2"
- C. "3"
- D. "4"

The correct answer is option [C]

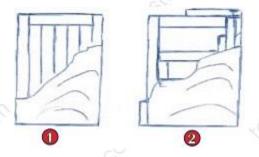
3. Which of the drawings is one wood paneled door?



- A. "1"
- B. "2"
- C. "3"
- D. "4"

The correct answer is option [B]

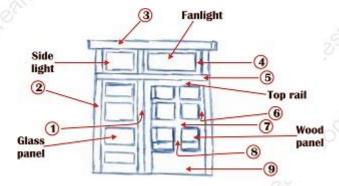
4. The drawing labelled '1' is \_\_\_\_\_ flush door.



- A. solid core
- B. plain
- C. hollow core
- D. battened core

The correct answer is option [A] Solution: Solid core has the inside solid with stripes of timber.

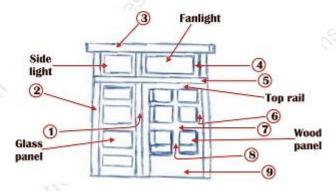
5. In the diagram, the drawing labelled '2' is called \_\_\_\_\_\_.



- A. mullion
- B. muntin
- C. jamb
- D. sash

The correct answer is option [C]

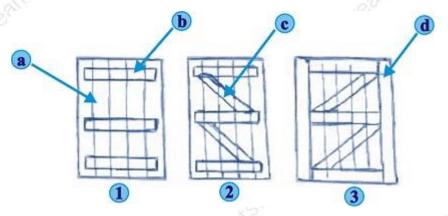
6. In the drawing, the part labelled '3' is the \_\_\_\_\_.



- A. transom
- B. sash
- C. mullion
- D. head

The correct answer is option [D]

7. What does the 'd' in the drawing indicate?



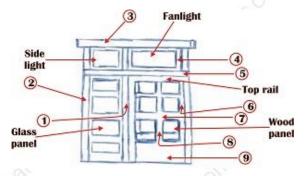
- A. Ledge
- B. Batten
- C. Frame
- D. Brace

The correct answer is option [C]

- 8. Functional requirement of a door when it is closed includes \_\_\_\_\_
- A. prevention of unauthorized entry
- B. resistance to weather
- C. resistance to the passage of heat and sound
- D. all of the above

The correct answer is option [D]

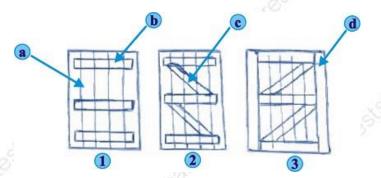
9. What is the part numbered '6' called?



- A. Jamb
- B. Sash
- C. Muntin
- D. Stile

The correct answer is option [D]

10. The arrow 'c' in the drawing shows the \_\_\_\_\_



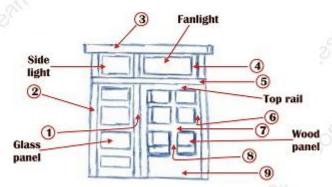
- A. ledge
- B. batten
- C. frame
- D. brace

The correct answer is option [D]

- 11. \_\_\_\_\_ have plain flat plywood surfaces on both sides.
- A. Paneled
- B. Flush
- C. Battened
- D. Glazed

The correct answer is option [B]

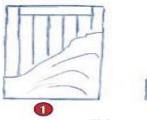
12. What is the name of the part labelled '4' in the drawings?

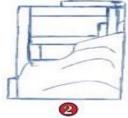


- A. transom
- B. sash
- C. muntin
- D. head

The correct answer is option [B]

13. What type of are drawn?





- A. Paneled
- B. Flush
- C. Plywood
- D. Battened

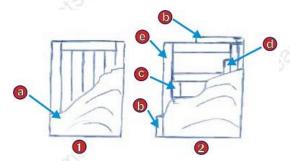
The correct answer is option [B]

- 14. The types of raised panels includes \_\_\_\_\_.
- A. bevel raised
- B. bevel raised and fielded

- C. square raised and fielded
- D. all of the above

The correct answer is option [D]

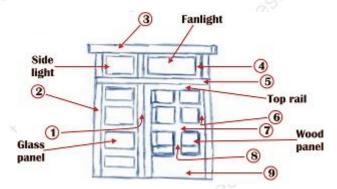
15. What is the name of the part labelled 'c' in the diagram?



- A. Lipping
- B. Lock block
- C. Hinge block
- D. Stile

The correct answer is option [B] Solution: Lock block is for fixing the locks.

16. The arrow labelled '7' in the diagram is the \_\_\_\_\_.



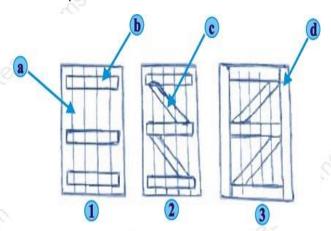
- A. jamb
- B. lock trial
- C. stile
- D. muntin

The correct answer is option [B]

- 18. are named according to \_\_\_\_\_
- A. the location
- B. type of construction
- C. method of hanging
- D. all of the above

The correct answer is option [D]

19. The part of the battened door labelled 'a' is called \_\_\_\_\_\_.



- A. ledge
- B. batten
- C. frame
- D. brace

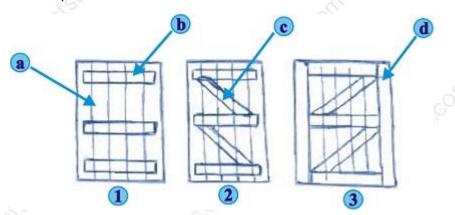
The correct answer is option [B] Solution: The batten or matchboard form the main body of the door

- 20. Panels are set in grooves in the framing members so that shrinkage and frame movements will \_\_\_\_\_.
- A. because visible cracks that will open up around panels
- B. not cause visible cracks that will open up around panels

- C. keep shrinking occurring in the grooves only
- D. all of the above

The correct answer is option [B]

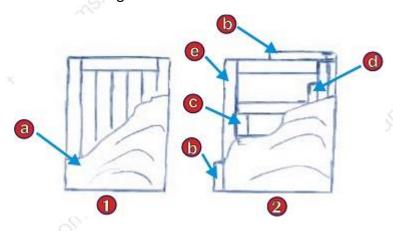
21. The part of the battened door labelled 'b' is called \_\_\_\_\_\_



- A. ledge
- B. batten
- C. frame
- D. brace

The correct answer is option [A]

22. The drawing labelled 'a' is called \_\_\_\_\_

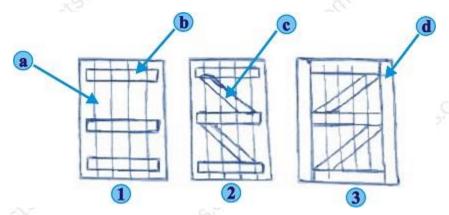


- A. lipping
- B. lock block

- C. hinge block
- D. plywood facing

The correct answer is option [D]

23. What is the name of the battened door in the drawing labelled '2'?

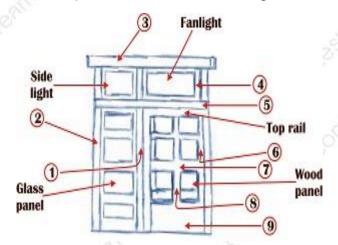


- A. Framed, ledged and braced door
- B. Ledged and braced door
- C. Ledged door
- D. Framed and ledged

The correct answer is option [B]

- 24. The braces of the battened are fixed so that they run \_\_\_\_ upwards from the hanging side to the closing side of the door.
- A. diagonally
- B. vertically
- C. horizontally
- D. all of the above

25. The part labelled '5' in the diagram is known as the \_\_\_\_\_.



- A. transom
- B. sash
- C. mullion
- D. stile

The correct answer is option [A]

- 26. Which are named according to the method of construction include \_\_\_\_\_ doors
- A. flush
- B. paneled
- C. match boarded
- D. all of the above

The correct answer is option [D]

27. The drawings are examples of \_\_\_\_\_ doors.



A. flush

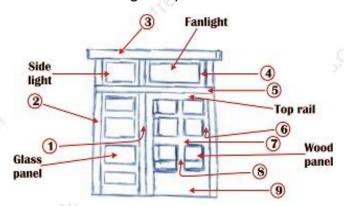
- B. battened
- C. paneled
- D. all of the above

The correct answer is option [C]

- 28. Types of internal does not include \_\_\_\_\_ doors.
- A. framed
- B. ledged
- C. flush
- D. all of the above

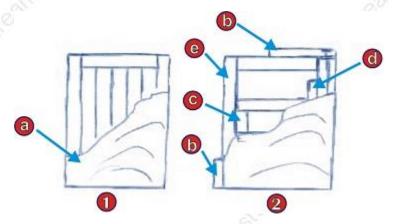
The correct answer is option [B]

29. In the drawing, the part labelled "1" is the \_\_\_\_\_\_



- A. mullion
- B. stile
- C. jamb
- D. muntin

### 30. What is the name of the part labelled 'e'?



- A. Lock block
- B. Lipping
- C. Hinge block
- D. Stile

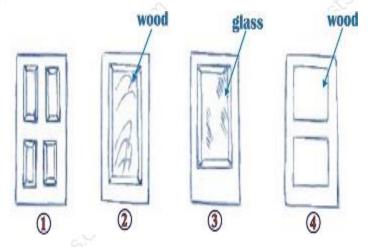
The correct answer is option [D]. Solution: It is the stile that really defines the size where there is no lipping.

- 31. Another name for match boarded door is \_\_\_\_\_ door.
- A. battened
- B. flush
- C. panelled
- D. none of the above

The correct answer is option [A]

- 32. A quality door must possess all of the following except \_\_\_\_\_
- A. not meant to serve privacy purpose to the rooms
- B. have strength and stability
- C. possess aesthetics value
- D. should have air tightness and easy to maintain

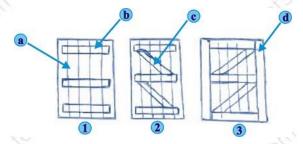
33. The drawing labelled '1' is a type of panelled door called \_\_\_\_\_ panelled door.



- A. four
- B. two
- C. glazed
  - D. one

The correct answer is option [A]

34. The type of battened or match boarded door in drawing '1' is \_\_\_\_\_ doors.



- A. ledged
- B. ledged and braced
- C. framed, ledged and braced
- D. framed panelled

- 35. Which of the following is not named according to the method of hanging?
- A. Folding
- B. Hinged
- C. Glazed
- D. Sliding

The correct answer is option [C] Solution: Glazed door is named according to the method of construction and not hanging.

- 36. The braces that run diagonally upward is meant to \_\_\_\_\_\_
- A. make the door close well
- B. make the door open well
- C. prevent the door from sagging
- D. prevent the door from decaying

The correct answer is option [C]

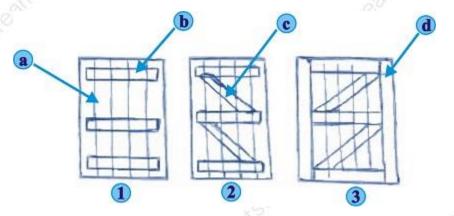
37. What type of flush door is in the drawing labelled '2'?





- A. Solid core
- B. Plain
- C. Hollow core
- D. Battened core

38. What type of battened door is in the drawing labelled '3'?



- A. Framed, ledged and braced
- B. Ledged
- C. Ledged and braced
- D. Framed and ledged

The correct answer is option [A]

- 39. Why are moulding cut on the edges of the stiles and rails around panels?
- A. To improve the appearance
- B. To improve the strength
- C. To prevent warping
- D. All of the above

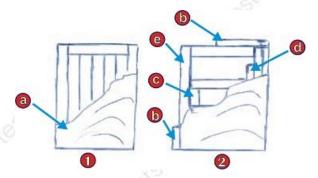
The correct answer is option [A]

- 40. The type of most suitable for hanging external edged is \_\_\_\_\_ hinges.
- A. piano
- B. tee
- C. butt
- D. strap

- 41. \_\_\_\_\_ strengthens and stabilizes the batten door.
- A. Batten
- B. Braces
- C. Ledge
- D. Frames

The correct answer is option [B]

42. What is the name of the part labelled 'd'?



- A. Lock block
- B. Lipping
- C. Hinge block
- D. Stile

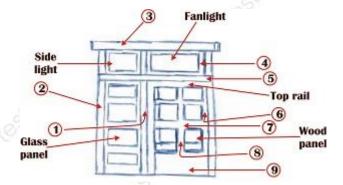
The correct answer is option [C]

- 43. Flush door come in two kinds, as \_\_\_\_\_\_
- A. solid and hollow core
- B. rebated and grooves
- C. single and double
- D. sliding and folding

- 44. Named according to location are \_\_\_\_\_ doors
- A. hinged and sliding
- B. external and internal
- C. flush and panelled
- D. all of the above

The correct answer is option [B]

#### 45. What is arrow number '9' called?



- A. Stile
- B. Muntin
- C. Bottom rail
- D. Sash

The correct answer is option [C]

- 46. To reduce the possibility of shrinkage cracks observe \_\_\_\_
- A. avoid the use of large panels
- B. use of plywood
- C. making panels tongued together
- D. all of the above

- 47. Types of external include \_\_\_\_\_ doors.
- A. ledged
- B. ledged and braced
- C. entrance
- D. all of the above

The correct answer is option [D]

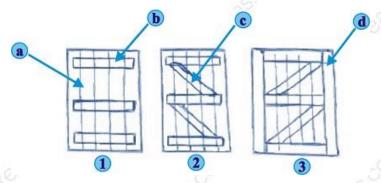
- 48. Advantages of flush over battened and panelled include \_\_\_\_\_
- A. flush enables fire resistance door to be made
- B. flush has higher sound proof
- C. flush has higher airtightness
- D. all of the above

The correct answer is option [D]

- 49. Functional requirements of a door when open includes \_\_\_\_\_.
- A. safe means of access
- B. safe means of egress
- C. safe means of ventilation
- D. all of the above

The correct answer is option [D]

50. The type of door drawn is \_\_\_\_\_ door.



A. flush		
B. battened		
C. panelled		
D. none of the above		
The correct answer is option [B]		
51 is a solid barrier that is fix open and to close it.	xed in an opening in a wall to a hin	g, pivot or slide
A. Frame		
B. Door		
C. Window		
D. Wood		
The correct answer is option [B]		

## **TOPIC: ESTIMATION AND COSTING**

## DIRECTION: Choose the correct answer from the lettered options.

1.The table is called \_\_\_\_\_ table.

SNO	MEMBER	QTY	SIZE (mm)	MATERIAL	
1	RAIL	2	19x70x580	Abura	
2	STILE	2	19x70x1040	Abura	
3	TOP RAIL	1	6x580x1040	Plywood	
4	LAMINATE	1	600×1060	Extra for triming	

Δ	working	rod
Α.	working	100

- B. cutting list
- C. estimate
- D. preliminary drawing

The correct answer is option [B]

Solution: Cutting list, containing of material need for a job and the sizes.

2.	The	heading	'size'	in	estimation	table	means	
----	-----	---------	--------	----	------------	-------	-------	--

- A. 20 lengths
- B. <del>№</del>20 timber
- C. 20 × 50 × 600mm timber
- D. mahogany timber

3. How much will the owner of the job pay to collect his job according to the estimate in the table?

SNO	ITEM	SIZE	TYPE	QTY	COST UNIT (N)	TOTAL COST(N
1	WOOD	75x120x1200	MAHOGANY	2	1,000	2,000
2	WOOD	1x50x1200	MAHOGANY	4	500	2,000
3	PLYWOOD	20x550x1150	MAHOGANY FACE	2	1,500	3,000
4	NAILS	(1½)", (2)"	ROUND HEAD WIRE	2 POUNDS	200	400
5	GLUE	SMALL	TOKSON CASEIN	1	200	200
6	SAND PAPER	300 mm	EMERY CLOTH	1	150	150
7	POLISH	2 BOTTLES	LACQUER	2 BOTTLES	400	800
8	TRANSPORTATION					500
9	WORKMANSHIP					6,000
10	GRAND TOTAL	50 451				15,050

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- B. <del>№</del>15,050
- C. <del>№</del>10,050
- D. <del>N</del>13,000

The correct answer is option [B]

4. [	Durii	ng k	ouildi	ng c	cons	truct	tion	the	table	which	expla	ins t	the	details	of	materials,	the	9
lab	our	anc	the	qua	lity	of the	e ma	ater	ials is	called								

- A. bill of quantities
- B. bill of labours
- C. bill of contract
- D. bill of estimations

- 5. What does 'workmanship' mean?
- A. The type of work to be done
- B. The people required to do the work
- C. The skill needed to do a job
- D. All of the above

The correct answer is option [C]

6. In the table (kitchen table) which of the following is not true?

~()			.(3):	
MATERIAL	SIZE (mm)	QTY	MEMBER	SNO
Abura	19x70x580	2	RAIL	1
Abura	19x70x1040	2	STILE	2
Plywood	6x580x1040	1	TOP RAIL	3
Extra for triming	600×1060	1	LAMINATE	4

- A. The rails are two in number of Abura with  $19 \times 70 \times 580$ mm size
- B. The laminate has the size 600 × 106mm with extra for triming
- C. The top is one, the size is  $600 \times 580 \times 1040$ mm
- D. The stiles are two,  $19 \times 70 \times 104$ mm

7. If the owner decides to undertake the provision of the materials, how much is he supposed to pay the worker?

SNO	ITEM	SIZE	TYPE	QTY	COST UNIT (N)	TOTAL COST(N)
1	WOOD	75x120x1200	MAHOGANY	2	1,000	2,000
2	WOOD	1x50x1200	MAHOGANY	4	500	2,000
3	PLYWOOD	20x550x1150	MAHOGANY FACE	2	1,500	3,000
4	NAILS	(1½)", (2)"	ROUND HEAD WIRE	2 POUNDS	200	400
5	GLUE	SMALL	TOKSON CASEIN	1	200	200
6	SAND PAPER	300 mm	EMERY CLOTH	1	150	150
7	POLISH	2 BOTTLES	LACQUER	2 BOTTLES	400	800
8	TRANSPORTATION	8				500
9	WORKMANSHIP					6,000
10	GRAND TOTAL					15,050

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- B. <del>№</del>6,500
- C. <del>№</del>9,050
- D. <del>№</del>15,050

The correct answer is option [A]

8.	. The working drawing in orthographic drawing is not made in	angle
р	rojection.	

- A. first
- B. second
- C. third
- D. first and third

9. From the table, how much should be given to purchase the polish?

SNO	ITEM	SIZE	TYPE	QTY	COST UNIT (N)	TOTAL COST( <del>N</del> )
1	WOOD	75x120x1200	MAHOGANY	2	1,000	2,000
2	WOOD	1x50x1200	MAHOGANY	4	500	2,000
3	(½)" PLYWOOD	20x550x1150	MAHOGANY FACE	2	1,500	3,000
4	NAILS	(11/2)", (2)"	ROUND HEAD WIRE	2 POUNDS	200	400
5	GLUE	SMALL	TOKSON CASEIN	1	200	200
6	SAND PAPER	300 mm	EMERY CLOTH	1	150	150
7	POLISH	2 BOTTLES	LACQUER	2 BOTTLES	400	800
8	TRANSPORTATION	:				500
9	WORKMANSHIP					6,000
10	GRAND TOTAL					15,050

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- B. <del>№</del>200
- C. <del>№</del>300
- D. <del>N</del>400

The correct answer is option [D]

1∩	The rod	Or W	arkina	drawing	contains	
IO.	THE TOU	OI W	אַרוואוכ	urawing	Contains	

- A. the name of the article
- B. the scale used for making the drawing
- C. the details of various parts and joints
- D. all of the above

- 11. Costing in estimation means \_\_\_\_\_.
- A. paying money
- B. giving the prices
- C. giving the conditions
- D. sending to market

The correct answer is option [B] Solution: Giving the prices of each material and labour value in the estimations.

12. The table indicates that \_\_\_\_\_

SNO	ITEM	SIZE	TYPE	QTY	COST UNIT (N)	TOTAL COST(N)
1	WOOD	75x120x1200	MAHOGANY	2	1,000	2,000
2	WOOD	1x50x1200	MAHOGANY	4	500	2,000
3	PLYWOOD	20x550x1150	MAHOGANY FACE	2	1,500	3,000
4	NAILS	(1½)", (2)"	ROUND HEAD WIRE	2 POUNDS	200	400
5	GLUE	SMALL	TOKSON CASEIN	1	200	200
6	SAND PAPER	300 mm	EMERY CLOTH	1	150	150
7	POLISH	2 BOTTLES	LACQUER	2 BOTTLES	400	800
8	TRANSPORTATION					500
9	WORKMANSHIP					6,000
10	GRAND TOTAL					15,050

- A. mahogany wood of 75 × 120 ×1200mm is needed
- B. mahogany wood of size 75 × 120 × 1200mm at ₹2000 per unit is needed
- C. the wood that cost ₹1,000 per unit are four in number
- D. total cost of all the wood is №2,000

				1125
SNO	MEMBER	QTY	SIZE (mm)	MATERIAL
1	RAIL	2	19x70x580	Abura
2	STILE	2	19x70x1040	Abura
3	TOP RAIL	1	6x580x1040	Plywood
4	LAMINATE	1	600x1060	Extra for triming

- A. quantity
- B. material
- C. member
- D. all of the above

The correct answer is option [D]

14.	The quantity in	estimation	of materials	means the	16.
	qualities	000	0		

- A. measurement
- B. standard
- C. number
- D. type

15. How much should be given for the purchase of the materials from number 1-7?

SNO	ITEM	SIZE	TYPE	QTY	COST UNIT (N)	TOTAL COST(N)
1	WOOD	75x120x1200	MAHOGANY	2	1,000	2,000
2	WOOD	1x50x1200	MAHOGANY	4	500	2,000
3	PLYWOOD	20x550x1150	MAHOGANY FACE	2	1,500	3,000
4	NAILS	(1½)", (2)"	ROUND HEAD WIRE	2 POUNDS	200	400
5	GLUE	SMALL	TOKSON CASEIN	1	200	200
6	SAND PAPER	300 mm	EMERY CLOTH	1	150	150
7	POLISH	2 BOTTLES	LACQUER	2 BOTTLES	400	800
8	TRANSPORTATION	8				500
9	WORKMANSHIP					6,000
10	GRAND TOTAL					15,050

۸	N	6	$\cap$	$\cap$	$\overline{}$
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- B. <del>№</del> 8,550
- C. <del>№</del>9,050
- D. <del>№</del>15,050

The correct answer is option [C]

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10.	ın	estimation	table,	tne	neading	τype	refers to	·

- A. 20 lengths of timber
- B. <del>№</del>20.00 timber
- C. 20 × 50 × 600mm timber
- D. mahogany timber

17. I	Estimates a	are made	from ful	l size	working	drawing	called	30
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- A. rod
- B. board
- C. pictorial

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1.	15	om	ı <del>C</del> ∶I	и.

The correct answer is option [A]

- 18. In estimation, the cost of the individual window unit will depend on \_\_\_\_\_\_.
- A. style of the window
- B. the material the unit is made from
- C. whether or not it has factory applied finish
- D. all of the above

The correct answer is option [D]

18. In estimation, the cost of the individual window unit will depend on \_\_\_\_\_\_

SNO	ITEM	SIZE	TYPE	QTY	COST UNIT (N)	TOTAL COST( <del>N</del> )
1	WOOD	75x120x1200	MAHOGANY	2	1,000	2,000
2	WOOD	1x50x1200	MAHOGANY	4	500	2,000
3	(½)" PLYWOOD	20x550x1150	MAHOGANY FACE	2	1,500	3,000
4	NAILS	(11/2)", (2)"	ROUND HEAD WIRE	2 POUNDS	200	400
5	GLUE	SMALL	TOKSON CASEIN	1	200	200
6	SAND PAPER	300 mm	EMERY CLOTH	1	150	150
7	POLISH	2 BOTTLES	LACQUER	2 BOTTLES	400	800
8	TRANSPORTATION					500
9	WORKMANSHIP					6,000
10	GRAND TOTAL					15,050

- A. style of the window
- B. the material the unit is made from
- C. whether or not it has factory applied finish
- D. all of the above

20. Full size drawing are used to prepare	are the estimate because it contains
A. the true shape and form of the job	
B. the true shapes and parts of joints	
C. hidden detail lines and sections	
D. all of the above	
The correct answer is option [D]	
21 is the table containing the slittle increase in their measurements.	summary of the materials needed for a job with
A. Costing	
B. Estimation	
C. Workmanship	
D. Cutting list	
The correct answer is option [D]	

22. In the table, the type of nails required for the job is \_\_\_\_\_.

SNO	ITEM	SIZE	TYPE	QTY	COST UNIT (N)	TOTAL COST( <del>N</del> )
1	WOOD	75x120x1200	MAHOGANY	2	1,000	2,000
2	WOOD	1x50x1200	MAHOGANY	4	500	2,000
3	PLYWOOD	20x550x1150	MAHOGANY FACE	2	1,500	3,000
4	NAILS	(11/2)", (2)"	ROUND HEAD WIRE	2 POUNDS	200	400
5	GLUE	SMALL	TOKSON CASEIN	1	200	200
6	SAND PAPER	300 mm	EMERY CLOTH	1	150	150
7	POLISH	2 BOTTLES	LACQUER	2 BOTTLES	400	800
8	TRANSPORTATION					500
9	WORKMANSHIP					6,000
10	GRAND TOTAL					15,050

A. tokson casein

B. round head wire

C. emery cloth	
D. lacquer	
The correct answer is option [B]	
23 is the table that include all the type their measurements, quantity, cost and workman	-
A. Costing	
B. Estimation	
C. Workmanship	
D. Cutting list	
The correct answer is option [B]	

# **TOPIC: FORMWORK AND CENTERING**

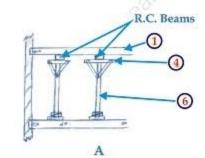
#### DIRECTION: Choose the correct answer from the lettered options.

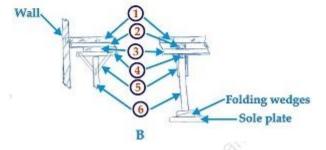
- 1. Precast concrete is the concrete cast \_\_\_\_\_.
- A. in the place of need
- B. partly outside the place of need
- C. outside the place of need
- D. with rods

The correct answer is option [C]

Solution: Concrete cast elsewhere and used elsewhere.

2. The arrow labelled '4' in drawing 'A and B' shown is called \_\_\_\_\_\_





- A. joist
- B. head tree
- C. prop
- D. brace

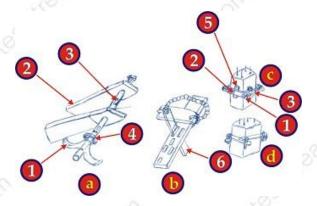
## 3. Why must formwork joints be tight fitting?



- A. To prevent air escape
- B. To prevent coarse aggregate escape
- C. To prevent liquid concrete escape
- D. To prevent collapse of formwork

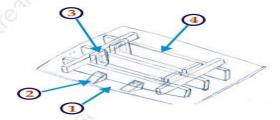
The correct answer is option [B]

5. In the drawing shown the part of the clamp labelled '2' is \_\_\_\_\_\_



- A. packing/wedges
- B. wing nut
- C. yoke bar
- D. bolt

6. In the drawing shown, the arrow labelled '4' is called \_\_\_\_\_



- A. wedge
- B. spacer
- C. shutter
- D. platform board

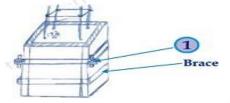
The correct answer is option [C]

7. The size of the timber props should be \_\_\_\_\_\_.

- A.  $25 \times 50$  mm wide
- B. 50 × 100 mm wide
- C. 25 × 100 mm wide
- D. 50 × 300 mm wide

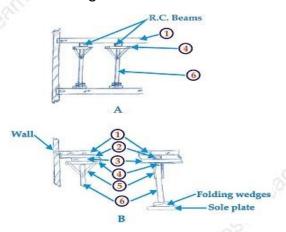
The correct answer is option [B]

8. What is the type of formwork represented in drawing shown?



- A. Concrete beams
- B. Concrete fence wall
- C. Concrete slabs
- D. Concrete floor

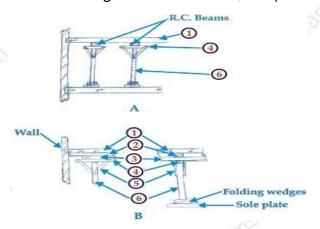
9. In drawing 'A and B' shown, the arrow '5' points to \_\_\_\_\_



- A. head tree
- B. brace
- C. prop
- D. joist

The correct answer is option [B]

10. In drawing 'A' and 'B' shown, the part labelled '1' is called \_\_\_\_\_.

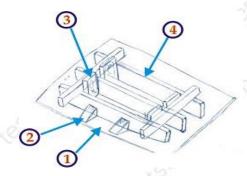


- A. runners
- B. joist
- C. decking
- D. headtree

- 11. Qualities of timbers for formwork are \_\_\_\_\_.
- A. they are fairly soft and not durable for external work
- B. they retain shape after drying
- C. they are easily worked with
- D. all of the above

The correct answer is option [D]

12. In the drawing shown, the part labelled '1' is the \_\_\_\_\_.



- A. shutter
- B. platform board
- C. spacer
- D. wedge

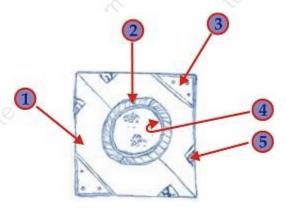
The correct answer is option [B]

- 13. Which of the following should not be used as material for formwork?
- A. Metals
- **B. Plastics**
- C. Plywood
- D. None of the above

- 14. For removal of props to slab spanning up to 4.5 m, the minimum time allowed should be \_\_\_\_\_.
- A. 3 days
- B. 7 days
- C. 7 months
- D. 14 days

The correct answer is option [B]

15. What type of formwork is shown in the diagram?



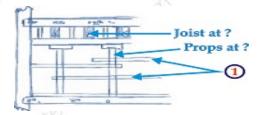
- A. Formwork for wall
- B. Formwork for circular column
- C. Formwork for lintel
- D. Formwork for slab

The correct answer is option [B]

- 16. The timber for head tree should measure \_\_\_\_\_ wide
- A. 25 × 50 mm
- B. 25 × 50 mm
- C. 50 × 100 mm
- D. 50 × 300 mm

		the removal of prop	s to beam spani	ning over 6n
should be	_ days.			
A. 2				
B. 7				
C. 14				
D. 21				
The correct and	swer is option [D]			
18. In the drawir	ng shown, the arrov	v labelled '1' is the _	alles.	
1 2 Br	Concrete			
A. cleat				
B. joist				
C. stringer boa	rd			
D. riser board				
The correct and	swer is option [A]			
19. A minimum į	period for removal	of slabs (i.e. props	left under) is	days.
A. 3				
B. 10				
C. 14	Xe			
D. 21				

20. In the drawing shown, the part labelled '1' is the \_\_\_\_\_\_.



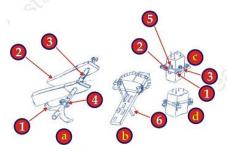
- A. head trees
- B. sole plates
- C. ties
- D. stretchers

The correct answer is option [C]

- 21. The members of formwork for beams should be planed when smooth surface finish is required, except \_\_\_\_\_.
- A. prop
- B. stretcher
- C. boarding
- D. all of the above

The correct answer is option [A]

22. The drawing "c" and "d" in the diagram shown illustrates the uses of \_\_\_\_\_.



- A. modern clamps only
- B. traditional and modern clamps

C. traditional yokes only

D. ancient and traditional yokes

The correct answer is option [B]

23. The method of removing formwork include \_\_\_\_\_.

A. First remove vertical members, walls, columns, sides etc.

Second, remove soffit of slabs etc.

Third, remove soffit of beams, girders etc.

B. First, remove soffit of beam, girders etc.

Second, remove soffit of slabs etc.

Third, remove vertical members, walls, column sided etc.

C. First, remove soffit of slabs etc.

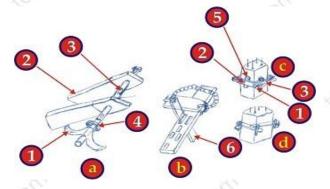
Second, remove vertical members, walls etc.

Third, remove soffit of beams, girders etc.

D. all of the above

The correct answer is option [A]

24. In the drawing shown, the arrow '6' is a yoke part known as \_\_\_\_\_\_



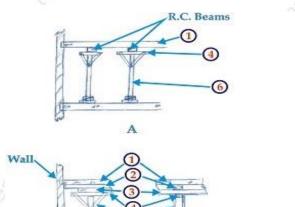
A. packing or wedge

- B. wing bolt nut
- C. bolt washer
- D. bar chain

The correct answer is option [D]

25. In drawing 'A and B' shown, the part labelled '6' is the \_\_\_\_\_

Folding wedges



- A. prop
- B. runners
- C. joist
- D. brace

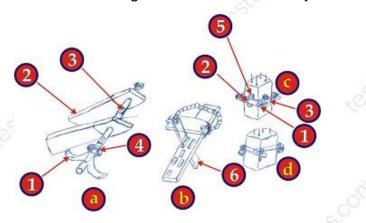
The correct answer is option [A]

- 26. Plywood used for formwork should \_\_\_\_\_
- A. resist weather
- B. not peel
- C. not be very strong but durable for easy construction
- D. be very strong and durable for easy construction

- 27. There are two methods of concrete cast in formwork namely \_\_\_\_\_.
- A. pre-cast and post-cast
- B. pre-cast and cast-in situ
- C. cast-in situ and wet cast
- D. wet cast and dry cast

The correct answer is option [B]

28. In the drawing shown, the traditional yoke is \_\_\_\_\_.



- A. "a'" and "b"
- B. "b" and "d"
- C. "a" and "c"
- D. "c" and "d"

The correct answer is option [C]

- 29. Formwork is not used to cast which of the following?
- A. Wall plates
- B. Columns and beams
- C. Concrete facial boards
- D. Bridges

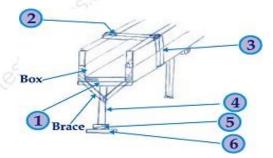
The correct answer is option [A] Solution: Wall plates are not cast with concrete. If it happens where the roof is concrete, then there will be no separate wall plate.

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٠.	. ( )	I DE MINIMIIM	neriod allowed for t	ne striking of	neame entiti i	nrong lett i	Inderiis
J	$\circ$ .		period allowed for t	no suming or	Deams some		

- A. 2 days
- B. 3 days
- C. 7 days
- D. 7 months

The correct answer is option [C]

31. The drawing drawn illustrates what type of formwork?



- A. Formwork for columns
- B. Formwork for beams or lintels
- C. Formwork for floor slabs
- D. Formwork for the wall casting

The correct answer is option [B]

32.	Qualities	of a	good	formwork	include	
-----	-----------	------	------	----------	---------	--

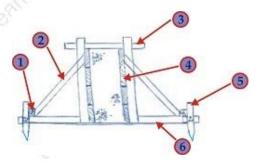
A. it must be strong enough to support the wet concrete

B. it must remain rigid while ramming, tamping and vibration

C. it must be designed to allow for easy removal

D. all of the above

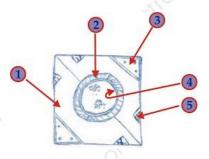
## 33. What is the name of the part labelled '4' in diagram shown?



- A. bracing
- B. peg
- C. stretcher
- D. boarding

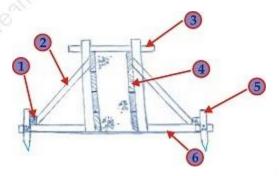
The correct answer is option [D]

34. The F.C. column in the part labelled '3' of the drawing shown is \_\_\_\_\_



- A. collar
- B. cleat
- C. sheeting
- D. plywood lining

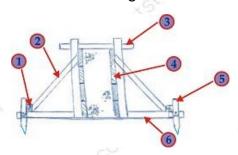
35. The name of the part labelled '5' in the drawing shown is \_\_\_\_\_.



- A. packing
- B. peg
- C. stretcher
- D. sole plate

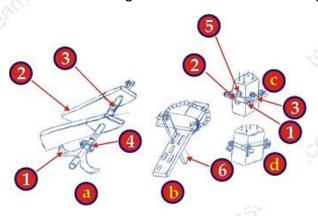
The correct answer is option [B]

36. In the drawing shown, the number '2' represents \_\_\_\_\_.



- A. bracing
- B. peg
- C. stretcher
- D. boarding

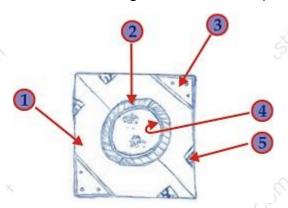
37. In the drawing shown, the arrow '5' is a yoke part known as \_\_\_\_\_.



- A. packing or wedge
- B. wing bolt nut
- C. bolt washer
- D. bar chain

The correct answer is option [A] Solution: Wedge or packing pieces to strengthen the boards.

38. In the drawing shown, arrow '2' points at \_\_\_\_\_\_.

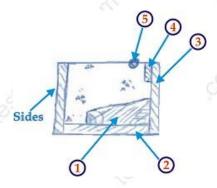


- A. collar
- B. cleat
- C. sheeting
- D. lining

- 40. The easy and gradual removal of formwork after concrete has hardened is called
- A. demolishing
- B. striking
- C. shuttering
- D. vibrating

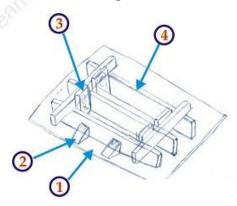
The correct answer is option [B]

41. In the sill mould in the drawing shown, number '4' is called inserted piece \_\_\_\_\_.



- A. to form weathering
- B. to form throating
- C. attached to sides to form return
- D. attached to sides to form rendering

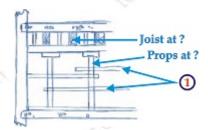
42. The drawing shown has the part labelled '3' called \_\_\_\_\_.



- A. wedge
- B. spacer
- C. shutter
- D. platform board

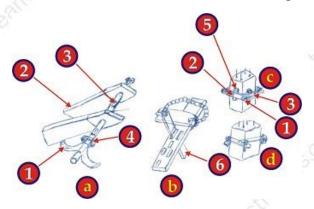
The correct answer is option [B]

44. In the drawing shown, the joists is built at \_\_\_\_\_ mm centres.



- A. 100
- B. 200
- C. 300
- D. 600

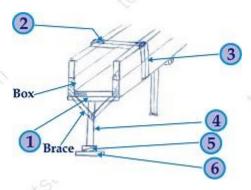
45. The arrow labelled '1' in the drawing shown is called \_\_\_\_\_.



- A. packing/wedges
- B. wing nut
- C. yoke bar
- D. bolt

The correct answer is option [B]

46. In the drawing shown, the number '3' is known as \_\_\_\_\_\_

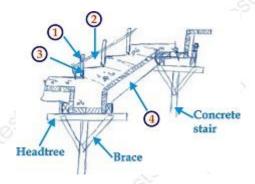


- A. headtree
- B. stretcher
- C. cleat
- D. prop

- 47. Why should surface of shuttering be covered with paper, oil or soft soap?
- A. To prevent the concrete sticking to the boarding.
- B. To prevent the concrete from setting poorly
- C. To make the concrete to be smooth
- D. All of the above

The correct answer is option [A]

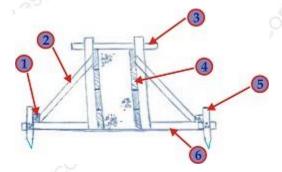
48. The arrow '3' of the drawing shown, the stair's formwork is \_\_\_\_\_.



- A. cleat
- B. joist
- C. riser board
- D. stringer board

The correct answer is option [C]

49. The part labelled '1' in the diagram shown is called \_\_\_\_\_.

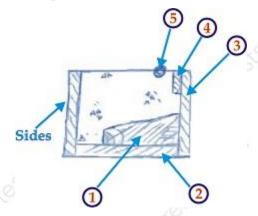


A. stretcher

- B. bracing
- C. boarding
- D. runner

The correct answer is option [D]

50. In the drawing shown, the sill mould labelled '1' is the \_\_\_\_\_.



- A. inserted piece to form weathering
- B. inserted piece to form throating
- C. sides
- D. pallet

The correct answer is option [A]

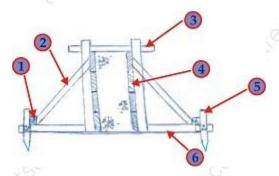
- 51. West Africa timber suitable for formwork include \_\_\_\_\_
- A. afara
- B. agbu
- C. achi
- D. all of the above

- 52. Materials used for formwork should include \_\_\_\_\_.
- A. plywood

- B. softwood
- C. hardwood
- D. all of the above

The correct answer is option [D]

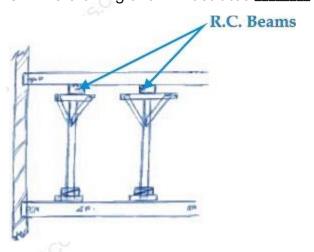
53. The arrow '6' is pointing at \_\_\_\_ in the drawing shown.



- A. runners
- B. stretcher
- C. sole plate
- D. boarding

The correct answer is option [C]

54. The drawing shown illustrates \_\_\_\_\_.

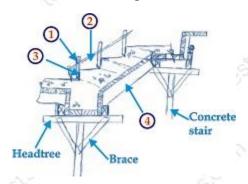


A. formwork for precast concrete floor

- B. formwork for concrete floors
- C. concrete floor formwork showing details of props, joist and beam casing
- D. formwork for concrete floor showing props tied at intervals

The correct answer is option [B]

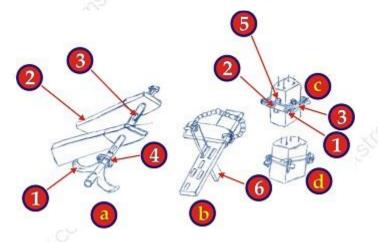
55. In the drawing shown, the arrow '2' points at \_\_\_\_\_.



- A. cleat
- B. joist
- C. stringer board
- D. riser board

The correct answer is option [C]

56. The drawing shown illustrates types of \_\_\_\_\_\_

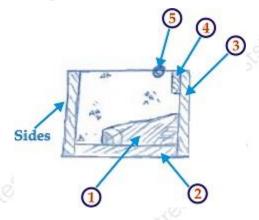


A. gate yokes

- B. safety anchors
- C. column clamps
- D. sash clamps

The correct answer is option [C]

57. In the drawing shown, number '5' is inserted piece \_\_\_\_\_\_.

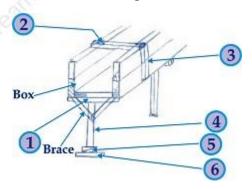


- A. to form weathering
- B. to form throating
- C. attached to side to form return
- D. all of the above

The correct answer is option [B]

- 58. Which of the following is not included in the construction of formwork?
- A. Propping and centering
- B. Shuttering
- C. Plastering the body
- D. Cleaning and surface treatment

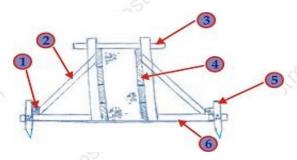
59. In the drawing drawn, the number '1' points at \_\_\_\_\_.



- A. sole plate
- B. stretcher
- C. head tree
- D. cleat

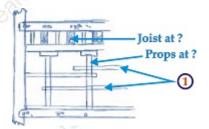
The correct answer is option [C] Solution: Head tree, the horizontal support.

60. In the drawing shown, the number '3' in the formwork is called \_\_\_\_\_\_



- A. bracing
- B. peg
- C. stretcher
- D. boarding

61. In the drawing shown, the props is built at \_\_\_\_\_ mm centres



- A. 50 150
- B. 100 300
- C. 100 1200
- D. 100 600

The correct answer is option [C]

62. The effect of liquid concrete of forms include \_\_\_\_\_\_

A. it exercises pressure proportional to the depth of the concrete

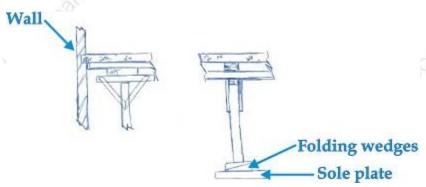
B. it caters for the liquid concrete on forms

C. it makes cement agents to leak if joist is not tight

D. all of the above

The correct answer is option [D]

63. The drawing shown is a formwork which illustrates formwork for \_\_\_\_\_\_



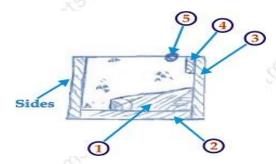
A. precast concrete floor

B. concrete floor

- C. concrete stairs
- D. illustrating props, joist and beam details

The correct answer is option [D]

64. In the drawing shown, the arrow labelled '2' is \_\_\_\_\_.



- A. inserted piece to form throating
- B. pallet
- C. inserted piece to form weathering
- D. inserted piece attached to side to form return

The correct answer is option [B]

- 65. Internal surface treatment of formwork includes \_\_\_\_\_.
- A. clean form of any rubbish
- B. wet the surface to be in contact with concrete with water
- C. surface of shuttering to be papered oiled or with soft soap
- D. all of the above

- 66. For floor slabs the timber should be \_\_\_\_\_ wide.
- A. 25 × 25 mm
- B. 25 × 50 mm
- C. 25 × 100 mm

The correct answer is option [C]

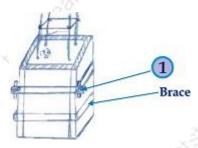
- 67. For removal of probs to slabs over 4.5m, the minimum time allowed should be \_\_\_\_\_ days.
  - A. 3
- B. 7
- C. 14
- D. 21

The correct answer is option [C] Solution: 14 days is the minimum time by which the concrete is set.

- 68. The size of the timber ledger for formwork is \_\_\_\_\_\_.
- A. 25 × 50 mm wide
- B. 25 × 100 mm wide
- C. 50 × 100 mm wide
- D.  $25 \times 150$  mm wide

The correct answer is option [D]

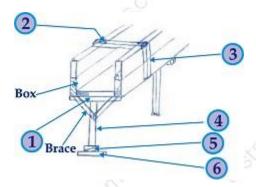
69. In the drawing shown, the part labelled '1' is called \_\_\_\_\_.



- A. ties
- B. clamp
- C. wedges
- D. props

#### The correct answer is option [B]

70. What name is the part labelled '5' in the drawing shown called?

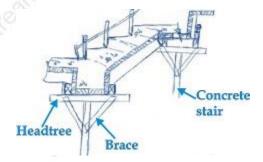


- A. Folding wedges
- B. Prop
- C. Sole plate
- D. Headtree

The correct answer is option [A] Solution: Folding wedges for adjusting the height.

- 71. The line of ties placed at the bottom and middle of the props is to \_\_\_\_\_.
- A. prevent any movement of the formwork
- B. prevent quick setting of the concrete
- C. allow the carpenter to climb the formwork
- D. all of the above

71. The line of ties placed at the bottom and middle of the props is to \_\_\_\_\_\_.



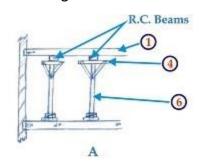
- A. prevent any movement of the formwork
- B. prevent quick setting of the concrete
- C. allow the carpenter to climb the formwork
- D. all of the above

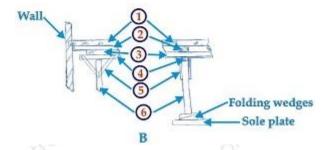
The correct answer is option [A]

- 73. The characteristics of timber for formwork does not include \_\_\_\_\_
- A. moderately light weight
- B. seasoned enough not to soak-dry concrete
- C. hard enough not to take in nails easily
- D. all of the above

The correct answer is option [C] Solution: They should be just good to take in and withdraw nails.

## 74. In drawing 'A' and 'B' shown, the part labelled '2' is called \_\_\_\_\_.

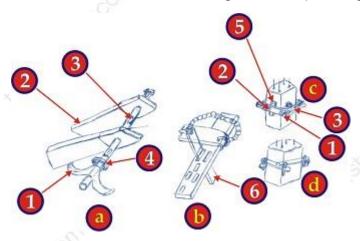




- A. runners
- B. joist
- C. decking
- D. headtree

The correct answer is option [B]

75. The arrow '4' in the drawing shown is pointing at the \_\_\_\_\_

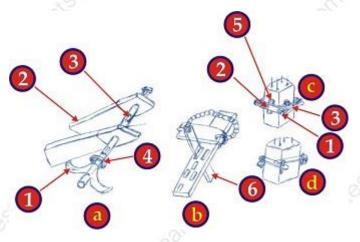


- A. bolt washer
- B. bolt key

- C. bolt nut
- D. all of the above

The correct answer is option [A]

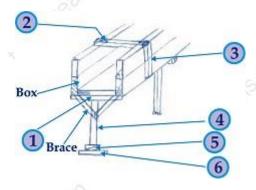
76. The modern type of clamps as shown in the diagram is \_\_\_\_\_.



- A. "a" and "b"
- B. "b" and "d"
- C. "a" and "c"
- D. "c" and "d"

The correct answer is option [B]

77. What part of the formwork in the drawing shown is '4'?



- A. Headtree
- B. Cleat

- C. Folding wedges
- D. Prop

The correct answer is option [D]

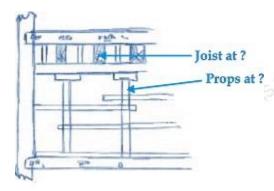
- 78. The size of timber beam for formwork is \_\_\_\_\_ wide.
- A. 25 × 250 mm
- B. 25 × 300 mm
- C. 25 × 360 mm
- D. 25 × 600 mm

The correct answer is option [A]

- 79. The basic factors governing the stripping time for formwork include \_\_\_\_\_
- A. types of cement used
- B. types of structure
- C. mixture of concrete
- D. all of the above

The correct answer is option [D]

80. The formwork in the diagram drawn shows \_\_\_\_\_\_

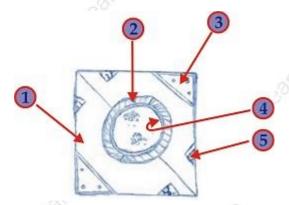


- A. props tied at intervals
- B. props and beam details
- C. mould for precast concrete slab

### D. mould for precast sill

The correct answer is option [A]

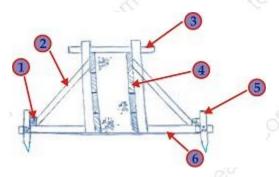
81. What is the name of the part labelled '5' in the drawing shown?



- A. Collar
- B. Cleat
- C. Bolt
- D. Lining

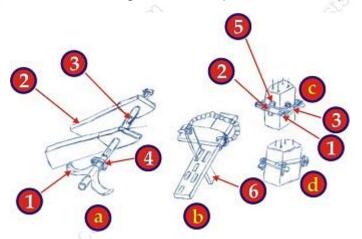
The correct answer is option [C]

82. The drawing shown illustrates which type of formwork?



- A. Formwork for lintel
- B. Formwork for wall
- C. Formwork for circular column
- D. All of the above

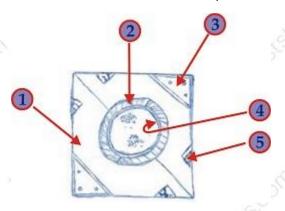
83. In the drawing shown, the part of the clamp labelled '3' is called \_\_\_\_\_\_.



- A. wedges
- B. wing nut
- C. yoke
- D. bolt

The correct answer is option [D]

84. What is the name of the part labelled '4' in the drawing shown?



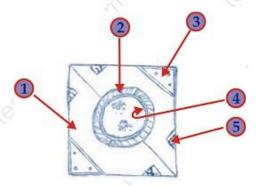
- A. Collar
- B. Cleat
- C. Bolt
- D. Plywood lining

85 (	Consolidation	of concrete in t	he formwork is done	by all except
00.	Consolidation	71 COHOLETE III 1:	HE IOHHWOLK IS GOLIE	DV all EXCED! .

- A. rubbing
- B. ramming
- C. tamping
- D. vibration

The correct answer is option [A] Solution: Concrete is not consolidated by rubbing trowel, etc. on the concrete.

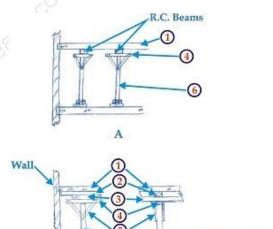
86. In the drawing shown, the part labelled '1' is called \_\_\_\_\_.



- A. collar
- B. cleat
- C. bolt
- D. lining

The correct answer is option [A]

87. The part labelled '3' of drawing 'A and B' shown is called \_\_\_\_\_.



- A. brace
- B. decking
- C. headtree
- D. runners

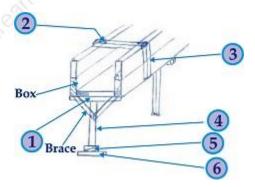
The correct answer is option [D]

88. 'Cast-in-situ' concrete is one cast \_\_\_\_\_\_

Folding wedges — Sole plate

- A. in the place of need
- B. partly in the place of need
- C. outside the place of need
- D. with the reinforced rods

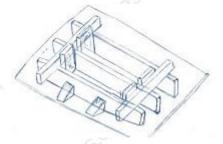
89. The number '2' in the drawing shown is a part called \_\_\_\_\_.



- A. prop
- B. stretcher
- C. headtree
- D. cleat

The correct answer is option [B]

90. The formwork in the drawing shown is for \_\_\_\_\_\_.



- A. concrete floor
- B. concrete lintel
- C. concrete sill
- D. all of the above

- 91. Formwork is used in the casting of concrete for \_\_\_\_\_.
- A. slabs
- B. lintels

C. stairs		
D. all of the above		
The correct answer is option	[D]	
92. A minimum period for stri sides of beams is day		e walls, columns and vertical
A. 2		
B. 7		
C. 14		
D. 21		
The correct answer is option	[A]	
93 is the temporary structure.	construction used in cast	ing reinforce concrete
A. Brickwork		
B. Cabinetwork		
C. Formwork		
D. Framework		
The correct answer is option	[C]	

## **TOPIC: HINGES**

#### **DIRECTION:** Choose the correct answer from the lettered options.

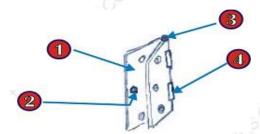
- 1. The large sizes of used in joinery are made of \_\_\_\_\_.
- A. brass
- B. steel
- C. japanned
- D. bronze

The correct answer is option [B]

- 2. Types of include \_\_\_\_\_.
- A. butt
- B. back flap
- C. strap
- D. all of the above

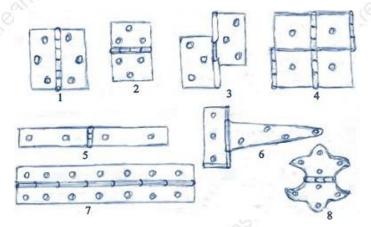
The correct answer is option [D]

3. The arrow '3' in the drawing is called \_\_\_\_\_



- A. knuckle
- B. pin
- C. flange
- D. hanging hole

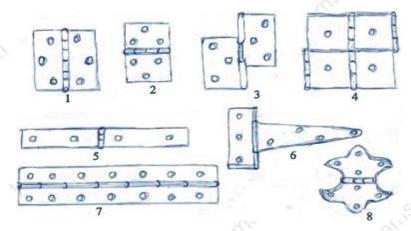
4. The labelled '1' is \_\_\_\_ hinge.



- A. strap
- B. butt
- C. back flap
- D. double acting

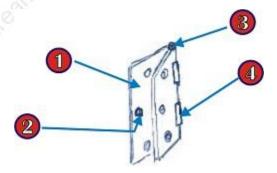
The correct answer is option [B]

5. The labelled '3' in the drawing is called \_\_\_\_\_



- A. rising butt
- B. strap hinge
- C. double acting
- D. butt hinge

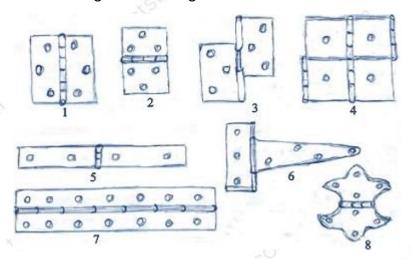
6. The part with arrow '4' is called \_\_\_\_\_



- A. flange
- B. pin
- C. knuckle
- D. screw hole

The correct answer is option [C]

7. In the diagram, the hinge labelled '5' is called \_\_\_\_\_ hinge.



- A. butt
- B. strap
- C. rising butt
- D. tee

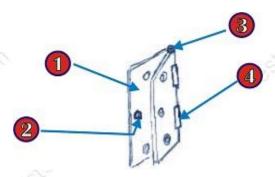
- 8. Back flap and rising butt are made of \_\_\_\_\_.
- A. steel, brass and nylon
- B. steel, japanned and bronze
- C. brass, nylon and silver
- D. steel, nylon and silver

The correct answer is option [A]

- 9. Why should the cutting for the hinge be equal to both the lid and crease of a box?
- A. So that both flanges flushes with the surfaces
- B. So that screws can enter equally too
- C. So that the cutting will be neat
- D. All of the above

The correct answer is option [A]

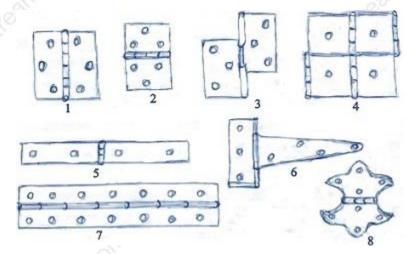
10. The drawing represents \_\_\_\_\_



- A. French catch
- B. clips
- C. hinge
- D. corner brackets

11. The double acting are mad	e of plated
A. brass	
B. nylon	
C. steel	
D. japanned	
The correct answer is option	(C)
12 is suitable for exter	nal e.g. sheds and gates.
A. Tee	
B. Back flap	
C. Strap	
D. Double acting	
The correct answer is option	[A]
351511	
13 are recessed into w	vood and used for table top flaps.
A. Butt	
B. Back flap	
C. Strap	
D. Tee	
The correct answer is option	[B]
14. Which of the following is u	sed on to raise it over floor coverings?
A. Tee	
B. Strap	
C. Rising butt	
D. Double acting	
The correct answer is option	[C]

#### 15. The labelled '4' is called \_\_\_\_\_



- A. rising butt
- B. strap
- C. double acting
- D. piano hinge

The correct answer is option [C]

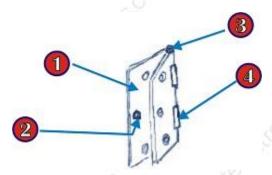
- 16. Which of the following is not used for making hinges?
- A. Brass
- B. Steel
- C. Aluminum
- D. Black japanned

The correct answer is option [C] Solution: Aluminum is not used for making hinges, it is fragile and soft.

- 17. Which of the following is not a type of hinges?
- A. "L"
- B. "T"
- C. Double acting
- D. Piano

### The correct answer is option [A]

18. The part with the arrow head '2' is pointing to \_\_\_\_\_.

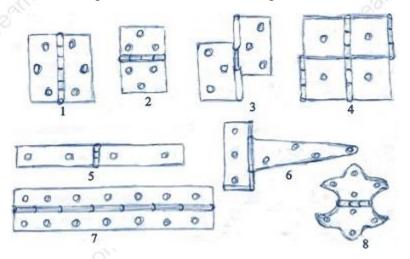


- A. knuckle
- B. pin
- C. flange
- D. hanging hole

The correct answer is option [C]

- 19. The small sizes butt used for furniture are made of \_\_\_\_\_\_
- A. nylon
- B. steel
- C. brass
- D. japanned

20. The hinge labelled '6' in the diagram is known as \_\_\_\_\_



- A. tee
- B. butt
- C. flap
- D. strap

The correct answer is option [A]

- 21. For folding screens which allow for 360°, use \_\_\_\_\_ hinges.
- A. butt
- B. tee
- C. rising
- D. double acting

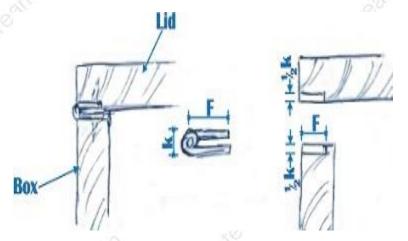
- 22. Which type of is used where the surface top fixing is limited?
- A. Tee hinge
- B. Butt hinge
- C. Rising butt hinge
- D. Strap hinge

23. The common causes of hinge bind	ding are	
A. cutting the thickness of the hinge	on one side	
B. using chisel to pave lines		
C. cutting hinge recesses too deep a	nd screw heads projecting	
D. cutting hinge recesses to shallow		
The correct answer is option [C] Solocutting of recesses.  24 are used for and which are	tstreams.	*esist.
A. Tee		
B. Back flap		
C. Butt		
D. Strap		
The correct answer is option [C]		
25. The type of long hinge used for b	oox lid fall-fronts, and on par	rticle board is
A. piano or continuous		
B. double acting		
C. strap		
D. back flap		
The correct answer is option [A]		

The correct answer is option [D] Solution: Strap hinge is narrow. It is used where

space is limited or narrow.

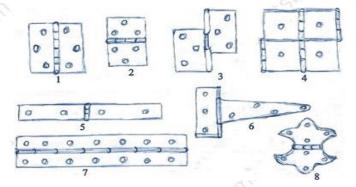
# 26. The diagram demonstrates \_\_\_\_\_



- A. marking position of
- B. marking position of staples
- C. marking and squaring the lid with the box
- D. assembling frames for butt joint

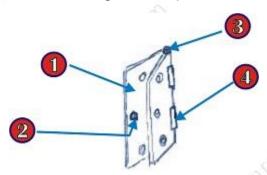
The correct answer is option [A]

27. The hinge labelled '2' is called \_\_\_\_\_ hinge.



- A. strap
- B. butt
- C. back flap
- D. piano

28. In the diagram, the part labelled '1' is called \_\_\_\_\_.



- A. knuckle
- B. pin
- C. flange
- D. hanging hole

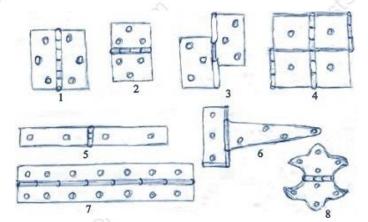
The correct answer is option [D] Solution: This is the hole in which screws are inserted.

- 29. Tee is made of \_\_\_\_\_.
- A. brass
- B. japanned
- C. steel
- D. nylon

The correct answer is option [B]

- 30. the most suitable used where beauty is required, e.g. flush of kitchen, bathroom cabinets, is \_\_\_\_\_ hinge.
- A. piano
- B. double
- C. ornamental
- D. strap

### 31. Which of the following is a piano hinge?



- A. 5
- B. 6
- C. 7
- D. 8

The correct answer is option [C]

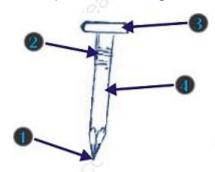
- 32. Which of the hinge in the diagram is ornamental hinge?
- A. "5"
- B. "6"
- C. "7"
- D. "8"

- 33. Fitting (metal) fixed between door and door frame or cabinet sides to keep the door swinging for opening and closing is called \_\_\_\_\_.
- A. cabinet nails
- B. brackets
- C. hinges
- D. stays

# **TOPIC: IRONMONGERY (NAILS)**

#### **DIRECTION:** Choose the correct answer from the lettered options.

1. The part of the diagram labelled '1' is called \_\_\_\_\_.



- A. point
- B. barbs
- C. shank
- D. head

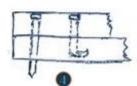
The correct answer is option [A]

2. Drawing number 1 shows what type of nailing?







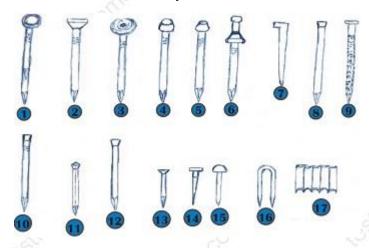


- A. Parallel nailing
- B. Dovetail nailing
- C. Opposite nailing
- D. All of the above

3. It nails keep be	nding on job, try	<del></del>		
A. to remove all t	races of glue, oil or	dirt from face of hami	ner	
B. to rub the ham	nmer's face on fine g	lass paper		
C. dip the point of	of nail in wax			
D. all of the above	е			
The correct answ	er is option [D]			
4. Why should nai	Is be driven below tl	ne surface of the job	and with nail punch?	? 3
A. So that the sui	rface can be cleane	d or planed without to	ouching the nail	
B. So that the ha	mmer does not bruis	se or stain the surface	with centre punch	
C. So that the na	il's head may be cor	ncealed and with a ma	atching filler	
D. All of the abov	'e			
The correct answ	er is option [D]			
5. The tack nails a	are generally used fo	or		
A. fixing ornamen	ital plates like escuto	cheon plates		
B. fixing fibre-cer	ment sheets and sla	tes		
C. to secure thin	materials and fabric	s to wood		
D. fixing sheet me	etals, roofing felts ar	nd leather		
The correct answ	er is option [C]			
6. When it is requi	ired to lock a door fi	rom inside and outsic	e, from one side the	right
A. bolts				
B.				
C. hurk				
D. stays				
- Cla				

The correct answer is option [B] Solution: is used to lock a door permanently from one side.

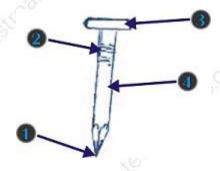
## 7. Which nail is masonry nail?



- A. "5"
- B. "6"
- C. "7"
- D. "8"

The correct answer is option [D]

# 8. Which part of the diagram is shown by the arrow '4'?

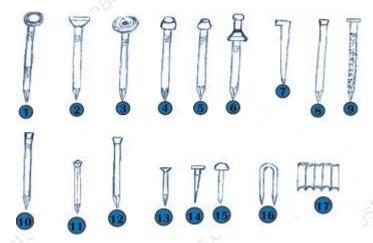


- A. Head
- B. Barbs
- C. Shank

D. Point

The correct answer is option [C]

9. In the diagram, the drawing labelled 13, 14 and 15 are called \_\_\_\_\_\_.



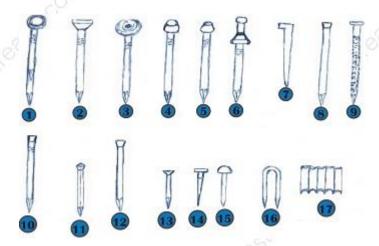
- A. staple pins
- B. tack nails
- C. panel pins
- D. fasteners

The correct answer is option [B]

- 10. When it is required to keep a door locked from inside without a lock, use \_\_\_\_\_
- A. bolts
- B. stays
- C. spanner
- D. screws

The correct answer is option [A] Solution: Use bolts to keep a door closed from inside when lock is not needed.

11. The drawing labelled '7' is called \_\_\_\_\_.



- A. wall board
- B. floor board
- C. hard board
- D. panel pin

The correct answer is option [B]

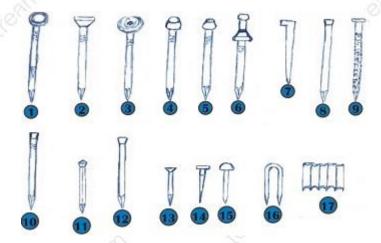
- 12. Naming nails according to uses include \_\_\_\_\_ nails.
- A. floor board
- B. masonry
- C. upholstery
- D. all of the above

13. The part of the diagram labelled '2' points at A. point B. barbs C. head D. shanks The correct answer is option [B] 14. When nailing across the grain, their length should not be less than \_ the thickness of the top piece. A. 1<sup>1</sup>/2 B. 21/2 C. 5 D. 10 The correct answer is option [B] 15. Masonry nails are used to \_\_\_\_\_. A. fix materials to concrete or masonry walls B. fix joinery where extra holding strength is required C. fix plaster boards sheeting

D. general building construction

16. What is galvanized nails?		
A. Nails that are zinc coated to preve	ent rust and wear	
B. Nails that is painted for beauty		
C. Nails that are very long for nailing	thick pieces	
D. Nails that have no coating at all		
The correct answer is option [A]		
17. Wiggle nail is also known as	-00	
A. zinc nail		
B. diamond nail		
C. corrugated box fastener		
D. veneer nail		
The correct answer is option [C]		
est <sup>en</sup>		
18. When nailing end grain, the length less than times.	of nails projecting down the	top should not be
A. 1 - 1 <sup>1</sup> /2		
B. 2		
C. 3 - 3 <sup>1</sup> /2		
D. 5 - 10		
The correct answer is option [C]		

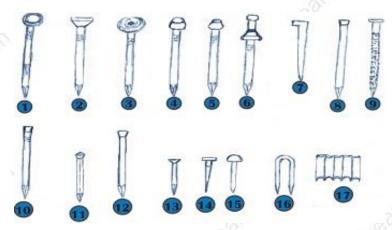
#### 19. Which nail is annular nail?



- A. "10"
- B. "11"
- C. "8"
- D. "9"

The correct answer is option [D]

## 20. What type of nail is drawn in number 2?



- A. Panel pin
- B. Bullet head
- C. Spring head
- D. Wall board

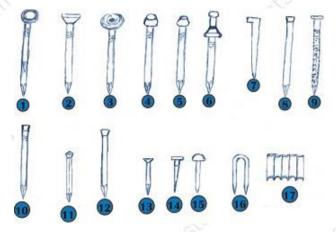
- 21. Nails exposed to corrosion are usually \_\_\_\_\_\_.
- A. painted
- B. galvanized
- C. polished
- D. made thicker

The correct answer is option [B] Solution: Nails in contact with water or corrosive condition are usually zinc coated (galvanized).

- 22. Nails to be used in contact with water should be made from \_\_\_\_\_.
- A. Copper
- B. Brass
- C. Aluminum
  - D. All of the above

The correct answer is option [D]

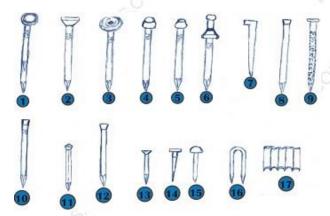
23. In the diagram the drawing labelled '6' is called \_\_\_\_\_.



- A. duplex nail
- B. masonry nails
- C. annular nail
- D. floor board

### The correct answer is option [A]

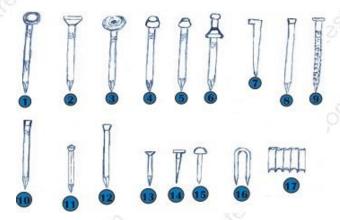
# 24. What type of nail is drawn in number 1?



- A. Diamond head
- B. Flat head
- C. Spring head
  - D. Wall board

The correct answer is option [B] Solution: Flat head, round wire nail is drawn.

25. Which nail in the diagram is used on the surface of a widening joint and framed carcass constructions?



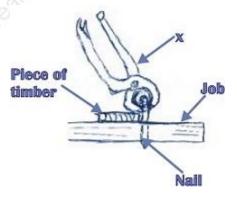
- A. Panel pin
- B. Lost head
- C. Wiggle nail
- D. Bullet head

The correct answer is option [C]

- 26. \_\_\_\_\_ are parts of ironmongery used to fix member together, it has the shanks threaded.
- A. Stays
- B. Screws
- C. Nails
- D. spanner

The correct answer is option [B] Solution: Screws have threaded shanks.

### 27. What action is taking place in the diagram shown?



- A. Using pincer to withdraw nail
- B. Using crowbar to withdraw nail
- C. Using pincers to withdraw a nail
- D. Driving in nail with pincers

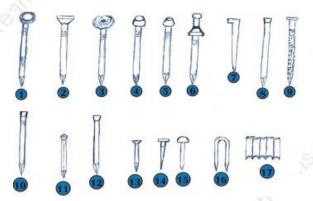
The correct answer is option [C]

28. What is the name of the drawing labelled '4'?



- A. Lost head
- B. Bullet head (oval wire)
- C. Spring head (roofing nail)
- D. Diamond

29. What is the name of the drawing labelled '5'?



- A. Lost head
- B. Hardboard
- C. Diamond head
- D. Round wire

The correct answer is option [C]

- 30. Often nails bend while being driven because of all these reasons except \_\_\_\_\_.
- A. wood is tough for nail to penetrate
- B. hammer glances off the nail head
- C. hammer is newly bought
- D. hammer has worn head and much heavier than nail

The correct answer is option [C] Solution: Newly bought hammer cannot cause nails to bend.

- 31. Naming nails according to the head does not include \_\_\_\_\_ head.
- A. diamond
- B. spring
- C. square
- D. flat

- 32. \_\_\_\_\_ refers to practice and use of steel or metal fitting and fixings or materials used in furniture or construction work.
- A. Steel fittings
- B. Ironmongery
- C. hardware
- D. Metal fittings

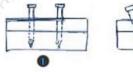
The correct answer is option [B] Solution: Ironmongery refers to the use and the materials made from steel or metal sheets especially for holding parts.

### 33. Number 11 is what type of nail?



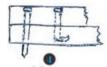
- A. Lost head
- B. Panel pin
- C. Hardboard
- D. Spring head

34. Which of the drawings shows wiggle nails used for widening joint?









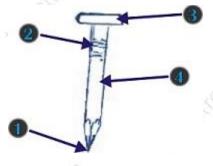
- A."1"
- B. "2"
- C. "3"
- D. "4"

The correct answer is option [C]

- 35. Which of the following is not true to the holding power of nails?
- A. If nails project through both pieces and is clinched along the grain
- B. Nails with thin flat heads have greater holding power
- C. Nails driven obliquely or dovetailed have greater holding power
- D. If nails are cement coated there is greater holding power

The correct answer is option [B]

36. What part is arrowed '3' in the diagram?

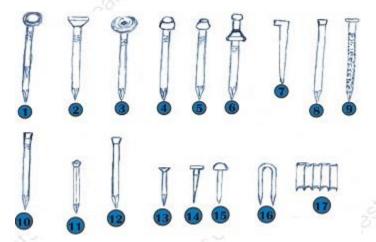


- A. Point
- B. Shank
- C. Barbs

#### D. Head

The correct answer is option [D]

37. The drawing labelled '3' is called \_\_\_\_\_

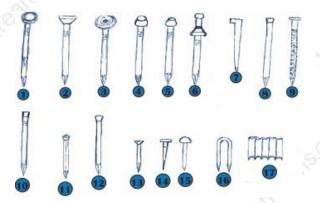


- A. spring head (roofing)
- B. bullet head (oval wire)
- C. diamond
- D. floor board

The correct answer is option [A] Solution: It is spring head, roofing nail.

- 38. Nails and screws are bought according to \_\_\_\_\_\_.
- A. the sizes
- B. shapes
- C. materials
- D. all of the above

#### 39. Which of the nails is called lost head?



- A. "10"
- B. "9"
- C. "8"
- D. "7"

The correct answer is option [A]

- 40. A stay is used to \_\_\_\_\_.
- A. close a window completely
- B. open a window completely
- C. open or close a window half way
- D. open or close a window completely

The correct answer is option [C]

- 41. Upholstery nails are used for \_\_\_\_\_.
- A. fixing fibre cement sheets and slates
- B. fixing general building construction
- C. fixing sheet metals, roofing felts and leather
- D. fixing upholstery materials to wood frames

- 42. Nails are generally named according to \_\_\_\_\_.
- A. material and uses
- B. shape of head and uses
- C. shape of head and colour
- D. colour and material

The correct answer is option [B]

43. Which drawing is in the diagram number 12?



- A. Lost head
- B. Panel pin
- C. Floor board
- D. Fastener

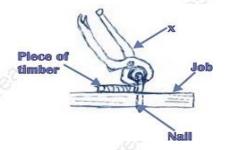
The correct answer is option [B]

- 44. The bullet head and lost head is used for \_\_\_\_\_.
- A. fixing corrugated roofing and wall cladding
- B. general building constructions
- C. fixing wall boards and hardboards
- D. temporary construction

- 45. The ironmongery materials used to hang and are called \_\_\_\_\_.
- A. bolts
- B. nails
- C. screws
- D. hinges

The correct answer is option [D] Solution: Hinges are used to hang and windows.

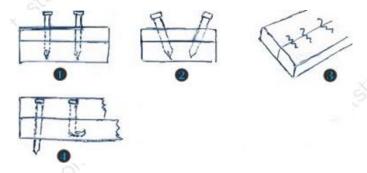
46. What is the importance of the piece of timber below the pincers?



- A. To prevent the pincers saw from cracking
- B. To prevent pincer bruising the job's surface
- C. Used to straighten the nail
- D. The pincers cannot work without it

The correct answer is option [B] Solution: It is to prevent pincers brushing the job's surface and staining it.

47. What type of nailing is in number 2?



- A. Parallel nailing
- B. Dovetail nailing

C. Opposite nailing			
D. Diagonal nailing			
The correct answer is option [	B] Solution: It is a dove	etail, oblique or	skew nailing.
48. Nails are made from all exc	cept		
A. zinc			
B. copper			
C. silicon bronze			
D. aluminum			
The correct answer is option [.nails are coated with zinc, e.g.		not made from 2	zinc but some
49 are ironmongery u threaded.	sed to fix members toge	ether but the sh	ank is not
A. Stays			
B. Screws			
C. Nails			
D. Hinges			
The correct answer is option [	C] Solution: Nails have	unthreaded sh	ank.
50. Which of the following is n	ot a type of nail?		
A. Masonry nail			
B. Staple pin			
C. Furniture nail			
D. Annular nails			
The correct answer is option [	·CJ		

51. The drawings in the diagram shows \_\_\_\_\_



- A. types of wire nails
- B. types of staple pins
- C. types of nails
- D. all of the above

The correct answer is option [C]

- 52. When ordering nails, state \_\_\_\_\_.
- A. quantity, metal, type, coating and size
- B. quantity, type, coating and size
- C. quantity, type and size only
- D. type and size only

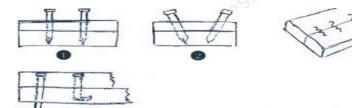
The correct answer is option [B]

- 53. Types of nails include \_\_\_\_\_.
- A. annular nails
- B. panel nails
- C. wire nails
- D. all of the above

- 54. The flat head (round wire nail) is used for \_\_\_\_\_\_.
- A. general and packing construction and soft timber framing
- B. general building constructions
- C. fixing wall boards and hardboards
- D. temporary construction e.g concrete formwork

The correct answer is option [A]

55. Which of the following in the diagram represents a nail being clinched over?



- A. "1"
- B. "2"
- C. "3"
- D. "4"

The correct answer is option [D]

- 56. Which of the following is true of the holding power of nails?
- A. Holding power depend on the pressure of the wood fibres against the shank
- B. Nails hold better when driven across the grain than along the grain
- C. Square nails with twisted shank have greater holding power
- D. All of the above

- 57. Ironmongery include the following materials except \_\_\_\_\_
- A. chisel
- B. nails

- C. Cake
- D. screw

The correct answer is option [A] Solution: Chisel is a hand tool not a material although it is made of steel blade.

# **TOPIC: IRONMONGERY (SCREWS)**

#### **DIRECTION:** Choose the correct answer from the lettered options.

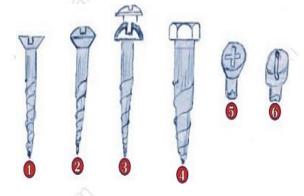
- 1. Why is screw provided with slot on the head?
- A. To give it a special design
- B. To take in the screw driver
- C. To collect dirt from the head
- D. All of the above

The correct answer is option [B] Solution: Slots are provided on the head of screws so as to put in the screw driver.

- 2. Wood screws are mostly made of \_\_\_\_\_
- A. mild steel
- B. copper
- C. brass
- D. all of the above

The correct answer is option [D]

3. In the diagram shown, what is the name of the screw labelled '4'?

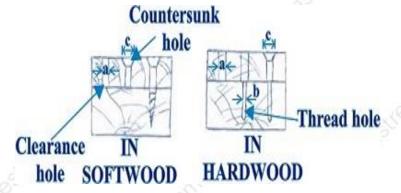


A. Countersunk head

- B. Round head
- C. Oval head
- D. Hexagonal head

The correct answer is option [D]

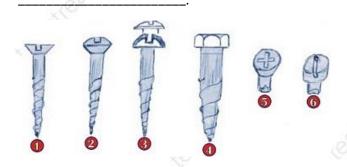
4. In the diagram, "a" (clearance hole) should be \_\_\_\_\_



- A. slightly more than diameter of shank
- B. slightly less than diameter of shank
- C. equal to the diameter of shank
- D. half the diameter of head

The correct answer is option [A]

5. In the diagram shown, the head of the screw labelled  $^{\prime}5^{\prime}$  is fixed with

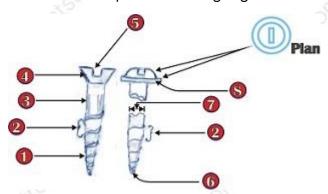


- A. flat screw driver
- B. cross screw driver

- C. star screw driver
- D. square screw driver

The correct answer is option [C]

6. Which arrow points at the gauge?



- A. "9"
- B. "6"
- C. "7"
- D. "8"

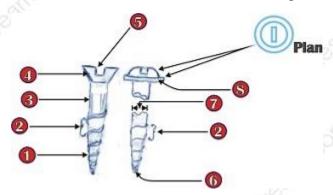
The correct answer is option [C]

- 7. Screw cups are used to cover screws where screws require \_\_\_\_\_.
- A. are permanently driven
- B. frequent removal and appearance
- C. that soft wood are screwed with particle boards
- D. all of the above

- 8. The screw needed to fix metal to wood where both strength and ornamentation is required is called \_\_\_\_\_ head.
- A. raise
- B. countersunk

C. flat		
D. all of the above		
The correct answer is option	on [A]	
9. Screws should be used i	in preference to nails when	
A. greater holding power is	s required	
B. the shock of driving nail	Is may damage the work	
C. the work may have to be	e taken apart	
D. all of the above		
The correct answer is option	on [D]	
10. The screw which is ofte spanner is called he	en larger than ordinary wood screws and it is ead.	driven with a
A. oval		
B. flat		
C. hexagonal		
D. countersunk		
The correct answer is option other screws and it is drive	on [C] Solution: Hexagonal head screw is a en with a spanner.	larger than
11. When driving screw obse	erve all except	
A. use screw driver that fits	s well into the slot	
B. screws can be driven wi	ith hammer	
C. drive screws until the he	ead is just seated	
D. screws are driven easie	r if the points are dipped in wax or soap	
The correct answer is option	on [B]	

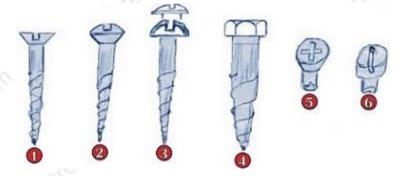
12. The arrow labelled '6' in the drawing is known as \_\_\_\_\_\_



- A. shank
- B. point
- C. gauge
- D. pitch

The correct answer is option [B]

13. In the diagram shown, screw number 2 is called \_\_\_\_\_.



- A. flat head
- B. raised head
- C. round head
- D. coach screw

- 14. The "Phillips and Pozidriv" screws have \_\_\_\_\_ screw driver.
- A. cross slots

- B. square C. flat or o
- C. flat or cheese tip
- D. round tip

The correct answer is option [A] Solution: Cross slots screw driver is same as the star screw driver.

- 16. Screws have holding power greater than nails because of the \_\_\_\_\_\_.
- A. thread
- B. shank
- C. point
- D. head

The correct answer is option [A]

- 7. Why should a screw not be driven with hammer?
- A. It reduces holding power
- B. It may break screw
- C. The thread fractures the fibre
- D. all of the above

The correct answer is option [D]

18. The drawing labelled '2' is called \_\_\_\_\_.









- A. raised cup
- B. dome cap
- C. screw plug

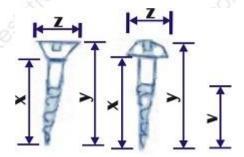
#### D. flush socket

The correct answer is option [C]

- 19. How are screws inserted to check counter sink?
- A. With the point on the countersunk hole
- B. With the head on the countersunk hole
- C. Using the diameter of the shank
- D. All of the above

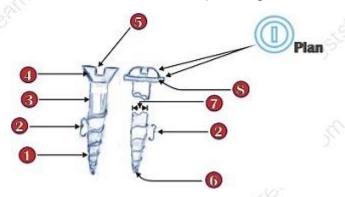
The correct answer is option [B]

20. In the diagram, the actual wrench size of the screw is marked \_\_\_\_\_



- A. "V"
- B. "X"
- C. "Y"
- D. "Z"

21. The arrow labelled '4' is pointing at \_\_\_\_\_



- A. shank
- B. core
- C. head
- D. slot

The correct answer is option [C]

- 22. When ordering screws, state all except \_\_\_\_\_
- A. pitch size
- B. quantity
- C. material
- D. sizes

The correct answer is option [A]

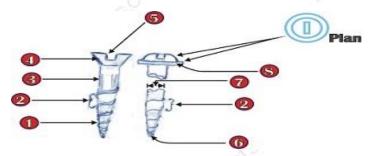
23. What name is given to screw number 3?



- A. Countersunk
- B. Raised head
- C. Round head
- D. Hexagonal head

#### The correct answer is option [C]

## 25. In the diagram, which arrow points at the flange head?



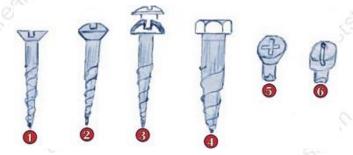
- A. "5"
- B. "6"
- C. "7"
- D. "8"

The correct answer is option [D]

- 26. Which of the screws is not used where corrosion is inevitable?
- A. Galvanized steel
- B. Mild steel
- C. Aluminum alloy
- D. Silicon bronze

The correct answer is option [B] Solution: Mild steel should not be used except it is galvanized.

27. In the diagram, drawing number '1' is what type of screw?



- A. Countersunk head
- B. Coach Screw
- C. Raised head
- D. Oval head

The correct answer is option [A]

- 28. Types of screws does not include \_\_\_\_\_ head.
- A. countersunk
- B. diamond
- C. round
- D. raised

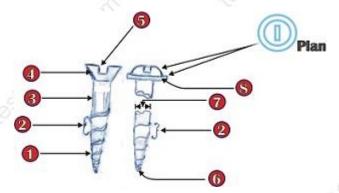
The correct answer is option [B]

- 29. The part of the screw that gives it the greater holding power is the \_\_\_\_\_\_
- A. shank
- B. point
- C. thread
- D. head

- 30. Which of the following tools are required when joining two pieces of hardwood together with screws?
- A. Screw driver, hand drill and screws
- B. Screws and screw driver
- C. Screws, hand drill and hammer
- D. Screws and hammer only

The correct answer is option [A]

31. What part of the screw in the diagram is the arrow '1' pointing at?



- A. Thread
- B. Point
- C. Core
- D. Shank

The correct answer is option [A]

32. The drawing labelled '1' is called \_\_\_\_\_



- A. raised cut
- B. dome cap
- C. screw plug

D. flush socket	
The correct answer is option [B	Solution: Dome cap for fixing mirror glass.
33. If it is required to fix a wood screw.	work machine to bases or its stand, use
A. hexagonal	
B. countersunk	
C. oval	
D. all of the above	
The correct answer is option [A	
34. Screws are not sold in	· restation
A. packets	
B. loose numbers of 3, 7, 10	
C. loose numbers of 10, 20, 30	
D. in packets of 50s for heavy of	guage long screws
The correct answer is option [B]	
35. The screw used for general surrounding surface is h	purpose where the head is to flush with the ead.
A. countersunk	
B. raised	
C. round	
D. hexagonal	
The correct answer is option [A] head flushing with the surround	] Solution: Countersunk sinks into the timber with the ling.
36. What type of screw is a com	bination of the countersunk and head screws?
A. Coach Screw	

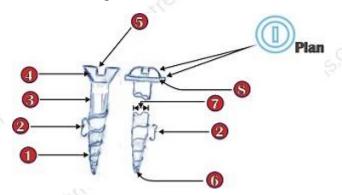
- B. Countersunk
- C. Round head
- D. Raised head

The correct answer is option [D]

- 37. Screws are named according to the \_\_\_\_\_
- A. shanks
- B. heads
- C. threads
- D. points

The correct answer is option [B]

38. In the diagram, the arrow '3' is called \_\_\_\_\_\_



- A. pitch
- B. thread
- C. core
- D. shank

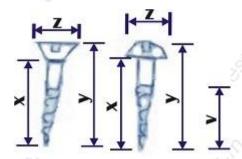
The correct answer is option [D]

- 39. Screws are used to do all except \_\_\_\_\_
- A. fix metal fittings

- B. fix and stays
- C. fix veneers to table tops
- D. strengthen joints

The correct answer is option [C] Solution: Veneers are fix with glues not screws.

40. In the diagram, the actual thread length of the screw is marked \_\_\_\_\_.



- A. "V"
- B. "Y"
- C. "X"
- D. "Z"

The correct answer is option [A]

- 42. \_\_\_\_\_ screw is used for bridge construction, fixing gate and rough work.
- A. Raised head
- B. Countersunk head
- C. Coach
- D. Round head

The correct answer is option [C] Solution: Coach Screw is the hexagonal head screw used for coach and carriage constructions.

- 43. If the slots of screws run parallel to one another or parallel to the grain surrounding them, this is called \_\_\_\_\_ the screws.
- A. heading

- B. slotting
- C. matching
- D. none of the above

The correct answer is option [A]

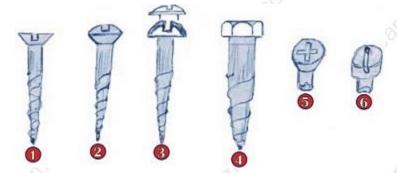
- 44. \_\_\_\_ head screw is used where the head is visible as an ornament or where material is too thin for countersunking.
- A. Flat
- B. Countersunk
- C. Round
- D. All of the above

The correct answer is option [C] Solution: Round head screw is used where visible ornamental surface is needed.

- 45. The three major parts of screws does not include \_\_\_\_\_
- A. handle
- B. head
- C. shank
- D. thread

The correct answer is option [A]

46. The drawings represents types of \_\_\_\_\_

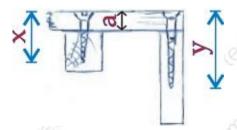


A. bolts

- B. duplex nails
- C. screws
- D. screw drivers

The correct answer is option [C]

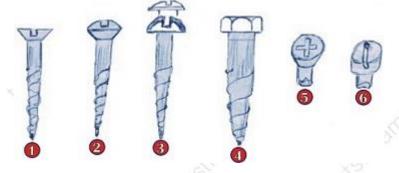
47. In the diagram, when screw is parallel to fibres, "y" should be between \_\_\_\_\_times "a".



- A.  $1^{1}/2 2$
- B.  $2^{1}/2 3$
- C.  $3^{1}/2 5$
- D.  $5^{1}/2 7$

The correct answer is option [B]

48. The screw driver used to drive the screw in the drawing labelled '6' is \_\_\_\_\_\_.



- A. flat screw driver
- B. cross screw driver
- C. star screw driver
- D. round screw driver

#### The correct answer is option [A]

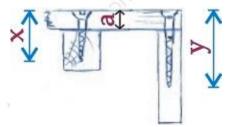
- 49. Why are screws staggered, not in straight line?
- A. For better holding power
- B. For easy withdrawal
- C. To prevent splitting of the wood grain
- D. all of the above

The correct answer is option [C]

- 50. Boring holes for screw may be done with \_\_\_\_\_
- A. bradawls
- B. brace and bits
- C. power drills
- D. all of the above

The correct answer is option [D]

51. In the diagram, the length required when the screw is across fibres, "x" is about \_\_\_\_\_ times "a".



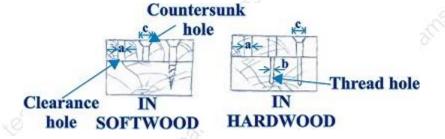
- A.  $1^{1}/2$
- B. 2
- C. 5
- D. 10

The correct answer is option [B]

- 52. The drawing labelled '3' is identified as \_\_\_\_\_\_.
- A. raised cup
- B. flush socket
- C. dome cap
- D. screw plug

The correct answer is option [A]

54. In the diagram, "c" (countersunk hole) should be \_\_\_\_\_.



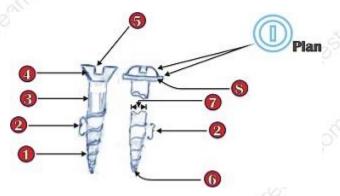
- A. slightly more than diameter of head
- B. slightly less than diameter of head
- C. equal to the diameter of head
- D. half the diameter of core

The correct answer is option [C]

- 55. When appearance of the work may be spoilt by nails, which type of screw are most appropriate?
- A. Round and raised head
- B. Round and countersunk head
- C. Raised head and coach screw
- D. Countersunk only

The correct answer is option [A]

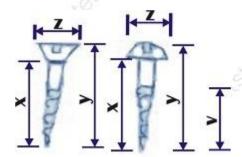
56. In the diagram, the arrow '2' points at \_\_\_\_\_



- A. thread
- B. pitch
- C. gauge
- D. shank

The correct answer is option [B]

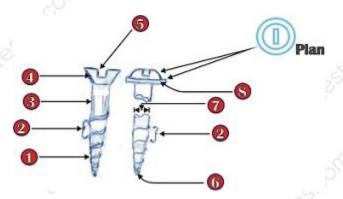
57. In the diagram, the actual length of the screw is marked \_\_\_\_\_.



- A. "V"
- B. "X"
- C. "Y"
- D. "Z"

The correct answer is option [C]

58. In the diagram, the arrow labelled '5' points at the \_\_\_\_\_.



- A. head
- B. core
- C. slot
- D. pitch

The correct answer is option [C]

- 59. How is brass and copper screw inserted?
- A. Drill pilot hole first
- B. Drive in a steel screw first to cut a thread in the wood
- C. Drive in the copper or brass screw at once
- D. Drill the countersink hole first only

The correct answer is option [B] Solution: Drive in a steel screw first to a threat in the wood because this screw break easily.

## **TOPIC: LOCKS**

#### **DIRECTION:** Choose the correct answer from the lettered options.

1. There are three types of acco	rding to method of fittin	g which does no	t include
A. table			
B. straight			
C. cut			
D. mortise			
The correct answer is option [A]	J 💢		
2. Drawer, box and cupboard are	e made of		
A. brass			
B. nylon			
C. steel			
D. aluminum			

3. What type of lock is labelled '2' in the diagram drawn?

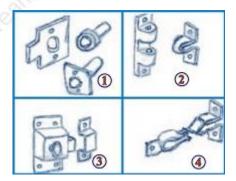


- A. Drawer
- B. Mortise
- C. Cut cupboard
- D. Box

The correct answer is option [A]

The correct answer is option [A]

4. What is the name of the catch in the diagram drawn, number '2'?



- A. Ball catch
- B. Double ball catch
- C. Gripper spring catch
- D. Surface cupboard catch

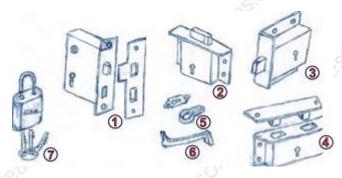
The correct answer is option [B] Solution: Double ball catch has double ball, like faces that catches the pin.

5.\_\_\_\_\_ is a lock usually cheap, simply screwed flat on the inside of the drawer or door.

- A. Mortise
- B. Straight
- C. Cut
- D. All of the above

The correct answer is option [B]

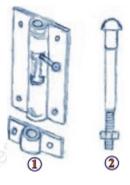
6. The drawings shown are types of \_\_\_\_\_.



- A. wall brackets
- B.
- C. metal boxes
- D. pad-

The correct answer is option [B]

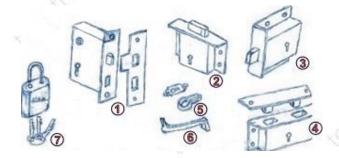
7. In the diagram drawn, the bolt labelled '1' is called \_\_\_\_\_ bolt.



- A. flat
- B. barrel
- C. coach
- D. cylindrical

The correct answer is option [B]

8. Which number in the diagram drawn is box lock?



- A. "1"
- B. "2"
- C. "3"

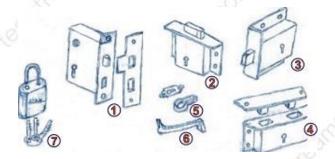
$\Box$	"1"
	4

The correct answer is option [D]

- 9. Mortise lock is used for \_\_\_\_\_.
- A. drawers
- B. boxes
- C. cupboards
- D. room

The correct answer is option [D]

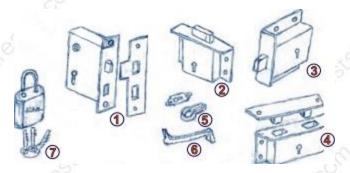
10. The part labelled '5' in the diagram drawn is called \_\_\_\_\_\_



- A. catch strike plates
- B. escutcheons
- C. Key holes
- D. key pulls

The correct answer is option [B]

11. The part labelled '7' in the diagram drawn is called \_\_\_\_\_\_.



- A. padlock
- B. keys and padlock
- C. keys
- D. mortise lock

The correct answer is option [B]

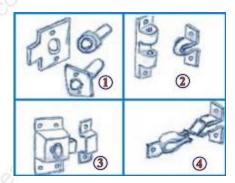
- 12. Types of bolts include all except \_\_\_\_\_ bolt.
- A. offset
- B. flush
- C. barrel
- D. mortise

The correct answer is option [D]

- 13. Types of catches includes all except \_\_\_\_\_ catch.
- A. French
- B. china
- C. magnetic
- D. spring

The correct answer is option [B]

14. In the diagram drawn, the catch labelled '3' is known as \_\_\_\_ catch.



- A. ball
- B. double ball
- C. gripper spring
- D. surface cupboard

The correct answer is option [D]

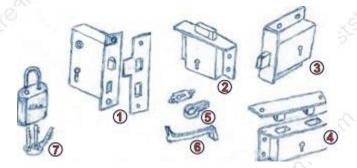
- 15. The mortise lock is made of \_\_\_\_\_\_
- A. brass, nylon and bronze
- B. nylon, bronze and aluminum
- C. brass, nylon and steel
- D. brass, steel and bronze

The correct answer is option [C]

- 16. Other are let in except \_\_\_\_\_ lock.
- A. drawer
- B. box
- C. cupboard
- D. mortise

The correct answer is option [C] Solution: Some cupboard are let-in and some are not let-in locks.

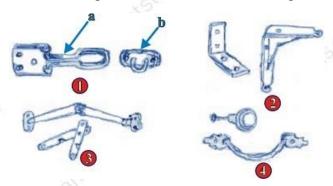
17. The lock labelled '1' in the diagram drawn is called \_\_\_\_\_ lock.



- A. drawer
- B. mortise
- C. cut cupboard
- D. box

The correct answer is option [B]

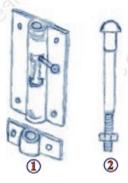
18. In drawing number '1', what name is given to the part labelled 'a'?



- A. Lid
- B. Hasp
- C. Staple
- D. Hook

The correct answer is option [B]

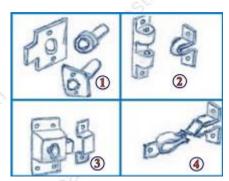
20. In the diagram drawn, the drawing labelled '1 and 2' are called \_\_\_\_\_\_



- A. bolts
- B. stays
- C. brackets
- D. flat screws

The correct answer is option [A]

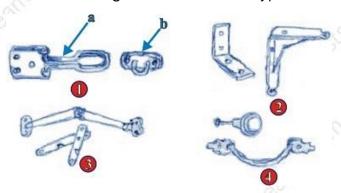
21. Which number in the diagram drawn is gripper spring catch?



- A. "4"
- B. "3"
- C. "2"
- D. "1"

The correct answer is option [A] Solution: Gripper spring is drawn because it has spring effect.

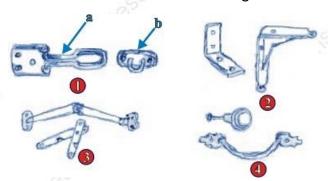
22. The drawing numbered '3' is a type of fittings called \_\_\_\_\_.



- A. brackets
- B. hasp and staple
- C. knobs and handles
- D. stays

The correct answer is option [D]

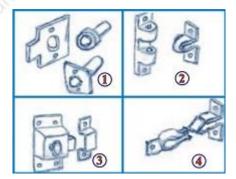
23. What is the name of the fitting in the drawing labelled '4'?



- A. Brackets
- B. Hasp and staples
- C. Knobs and handles
- D. Stays

The correct answer is option [C]

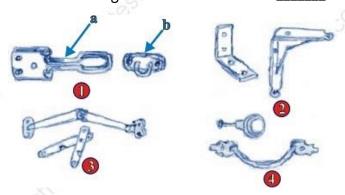
24. The drawings in the diagram drawn are called \_\_\_\_\_.



- A. bolts
- B. stays
- C. brackets
- D. catches

The correct answer is option [D]

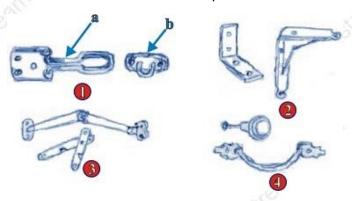
25. The drawing illustrates woodwork \_\_\_\_\_



- A. fittings
- B. finishing
- C. templates
- D. all of the above

The correct answer is option [A]

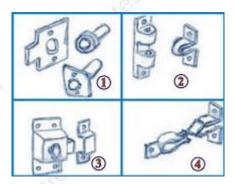
#### 26. What is the name of the part labelled 'b' in drawing '1'?



- A. Lid
- B. Hasp
- C. Stapple
- D. Hook

The correct answer is option [C]

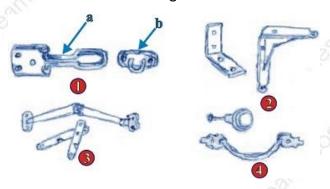
27. The catch labelled '1' in the diagram drawn is called \_\_\_\_ catch.



- A. ball
- B. double ball
- C. gripper spring
- D. surface cupboard

The correct answer is option [A]

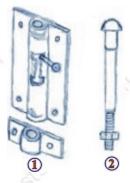
#### 29. What is the drawing labelled '2' called?



- A. Brackets
- B. Hasp and stapple
- C. Knobs and handles
- D. and

The correct answer is option [A]

30. What is the bolt labelled '2' in the diagram drawn called?



- A. Flat bolt
- B. Barrel bolt
- C. Coach Bolt
- D. Circular bolt

The correct answer is option [C]

# **TOPIC: MACHINES (CIRCULAR SAW)**

#### **DIRECTION:** Choose the correct answer from the lettered options.

<ul> <li>A. Rebating</li> <li>B. Circle cutting</li> <li>C. Trenching</li> <li>D. Bevel cutting</li> <li>The correct answer is option [B]</li> <li>2. For adjusting the fence, which of the following is not TRUE?</li> <li>A. Fasten the ripping fence for all ripping operations.</li> <li>B. Fasten the ripping fence only when ripping narrow boards.</li> </ul>	
<ul> <li>C. Trenching</li> <li>D. Bevel cutting</li> <li>The correct answer is option [B]</li> <li>2. For adjusting the fence, which of the following is not TRUE?</li> <li>A. Fasten the ripping fence for all ripping operations.</li> </ul>	
D. Bevel cutting  The correct answer is option [B]  2. For adjusting the fence, which of the following is not TRUE?  A. Fasten the ripping fence for all ripping operations.	
The correct answer is option [B]  2. For adjusting the fence, which of the following is not TRUE?  A. Fasten the ripping fence for all ripping operations.	
<ul><li>2. For adjusting the fence, which of the following is not TRUE?</li><li>A. Fasten the ripping fence for all ripping operations.</li></ul>	
A. Fasten the ripping fence for all ripping operations.	
A. Fasten the ripping fence for all ripping operations.	
20	
B. Fasten the ripping fence only when ripping narrow boards.	
C. The fence is usually placed to the right side of the blade.	
D. Measure the distance from the fence to one tooth bent towards the fence	э.
The correct answer is option [B]	
3. The angle of the opening in a push stick should be	
A. 10°	
B. 15°	
C. 45°	
D. 90°	
The correct answer is option [C]	
4. The three teeth styles of the combination blade include all except	_•
A. style "S"	
B. style "T"	

- C. style "U"
- D. style "V"

The correct answer is option [B]

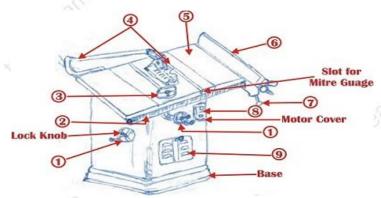
- 5. The splitter or riving knife is used to \_\_\_\_\_
- A. cut the timber when the saw is weak
- B. cut rebates and grooving
- C. to keep saw kerf open
- D. to cover against accident

The correct answer is option [C]

- 6. You can use \_\_\_\_\_ to cut rebate/groove.
- A. dado head
- B. wobble saw
- C. several saw cuts
- D. all of the above

The correct answer is option [D]

7. What part of the machine is labelled '7'?



- A. Riving knife.
- B. Fence clamp lever.

- C. Saw adjustment wheel.
- D. Guard and splitter.

The correct answer is option [B]

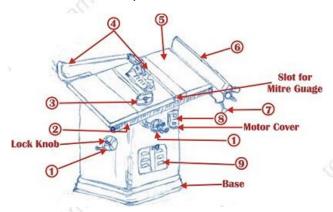
- 8. The purposes of saw guard include all except \_\_\_\_\_
- A. prevent accidental contact with the saw
- B. prevent the teeth picking up wood accidentally
- C. prevent the teeth hurting a falling person or tool
- D. to prevent the blade from being dull

The correct answer is option [D]

- 9. Which of the following is not a type of circular saw blade?
- A. Combination saw blades.
- B. Square-cut saw blade.
- C. Easy to cut blade.
- D. plywood saw blade.

The correct answer is option [B]

10. The arrow '5' points at the \_\_\_\_\_.



- A. ripping fence
- B. mitre guage

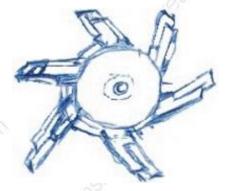
- C. table
- D. motor

The correct answer is option [C]

- 11. When ripping a board longer than 1800mm which of the following should be observed?
- A. Have a helper support the other end.
- B. Use a push block to support the work.
- C. Cut the board half way a side and through from the other end.
- D. Remove the ripping fence and rip through.

The correct answer is option [A]

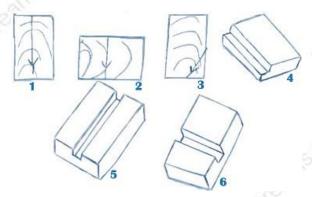
12. Which type of cutting accessory is drawn?



- A. Assembly of wobble saw
- B. Combination blade style 'U'
- C. Adjustable dado head blade
- D. None of the above

The correct answer is option [C]

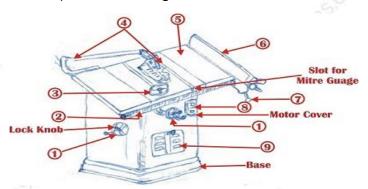
### 13. What operation is shown in the drawing '4'?



- A. Grooving
- B. Rebating
- C. Trenching
- D. Chamfering

The correct answer is option [B] Solution: Rebating is removing or cutting opening by the edge to form 'L'.

#### 14. The part in the diagram labelled '1' is called \_\_\_\_\_\_.



- A. mitre guage
- B. saw adjustment handwheel
- C. fence clamp lever
- D. graduated guide bar

The correct answer is option [B]

- 15. Which type of saw is also called planer blade?
- A. Rip blade.
- B. Crosscut blade.
- C. Hollow ground blade.
- D. Combination blade.

The correct answer is option [C]

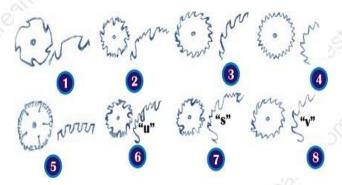
- 16. What adjustments are made on the circular saw in preparation for ripping?
- A. Adjust the fence and blade.
- B. Adjust the guard and guide bar.
- C. Adjust the mitre guage and the saw.
- D. All of the above.

The correct answer is option [A]

- 17. Why should only crosscut hollow-ground or combination blade be used for joint making?
- A. Most joints are crosscut (across the grain).
- B. These blades produce smooth cuts.
- C. Most cabinet workers cannot use rip saw.
- D. All of the above.

The correct answer is option [B]

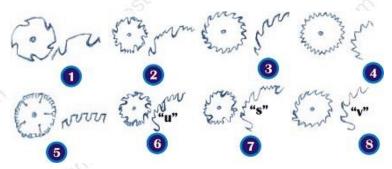
18. The blades in number '6, 7 and 8' are \_\_\_\_\_ blades.



- A. cross-cut
- B. rip
- C. combination
- D. hollow ground

The correct answer is option [C]

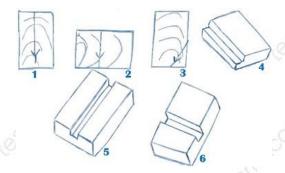
19. The drawing labelled '2' is a type of blade called \_\_\_\_\_ blade.



- A. rip
- B. easy-cut
- C. cross-cut
- D. hollow ground

The correct answer is option [D]

20. What circular saw operation is shown in the drawing labelled '5'?



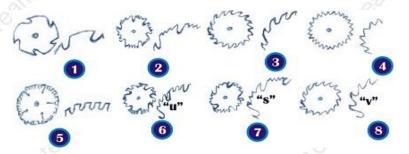
- A. Rebating
- B. Trenching
- C. Beveling
- D. Grooving

The correct answer is option [D] Solution: Grooving is removing the Centre of the face or edge of a timber lengthwise.

- 21. All cuts for making joints should be done with \_\_\_\_\_.
- A. ripsaw, crosscut or easy cut blade
- B. ripsaw, easy cut or plywood saw
- C. crosscut, hollow-ground or combination blade
- D. ripsaw or plywood saw only

The correct answer is option [C] Solution: Joint making should be done with crosscut, hollow-ground or combination saw.

22. The blade drawn in number '4' is known as \_\_\_\_\_ blade.



- A. rip
- B. cross-cut
- C. plywood
- D. hollow ground

The correct answer is option [B]

23. When a fine cut is required the recommended teeth style of the combination blade is marked \_\_\_\_\_.

- A. style "S"
- B. style "U"
- C. style "V"
- D. style "O"

The correct answer is option [A]

24. The diagram shows a \_\_\_\_\_

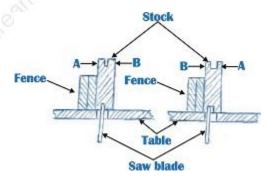


- A. harvesting stick
- B. tapping stick
- C. push stick
- D. chair pattern

The correct answer is option [C]

25. The types of circular saw blades includes
A. cut off or crosscut blade
B. hollow ground or planer blade
C. ripsaw blade
D. all of the above
The correct answer is option [D]
26. Which of the following is not true to circular saw?
A. It is used to cut circles or curves
B. The saw has the shape of a circle
C. The saw rotates in circular movement
D. The machine cannot cut circular patterns
The correct answer is option [A]
27. Hollow ground blade is used where
A. rough finish is desirable
B. smooth finish is desirable
C. the timber is land on the ground floor
D. all of the above
The correct answer is option [B]

27. Hollow ground blade is used where \_\_\_\_\_



- A. rough finish is desirable
- B. smooth finish is desirable
- C. the timber is land on the ground floor
- D. all of the above

The correct answer is option [B]

- 29. The cutoff blade is used for \_\_\_\_\_.
- A. cutting along the grain
- B. cutting across the grain
- C. cutting across and along the grain
- D. cutting plywood only

The correct answer is option [B]

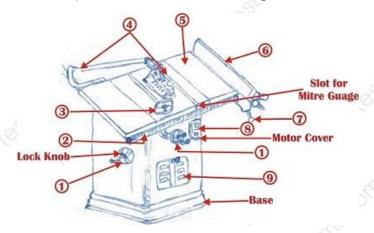
- 30. There are \_\_\_\_\_ kinds of circular saw blades.
- A. 2
- B. 4
- C. 6
- D. 8

The correct answer is option [C]

- 31. How far above the work should the saw project?
- A. 3mm
- B. 8mm
- C. 18mm
- D. 28mm

The correct answer is option [B]

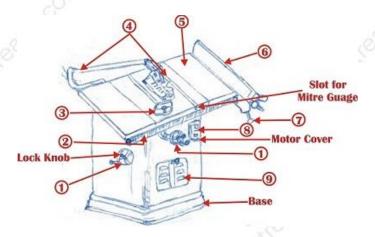
32. The part labelled '2' in the diagram is called \_\_\_\_\_



- A. graduated guide bar
- B. fence clam lever
- C. mitre guage
- D. guard and splitter (riving knife)

The correct answer is option [A]

33. What is the part labelled '3' in the diagram called?



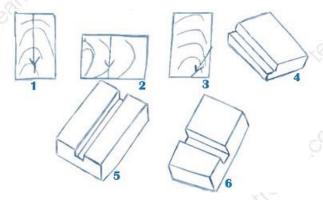
- A. Guide bar
- B. Mitre guage
- C. Switch
- D. Saw dust clean-out

The correct answer is option [B]

- 34. The methods of cutting a groove include all except \_\_\_\_\_
- A. making one cut with a standard blade
- B. making two or more cuts with a standard blade
- C. using a wobble washer
- D. using a dado head

The correct answer is option [A]

35. The sawing operation in the drawing labelled '3' is \_\_\_\_\_



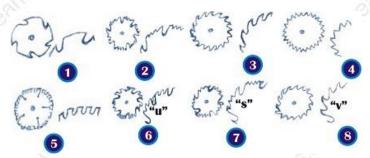
- A. grooving
- B. cross cutting
- C. mitring
- D. chamfering

The correct answer is option [C] Solution: Mitering or mitre cut is cutting at angle 45o.

- 36. Woodwork machines refers to all except \_\_\_\_\_\_.
- A. machines that are mounted.
- B. machines that cannot be lifted by hand
- C. machines that are taken to the job
- D. machines that job is taken to it

The correct answer is option [C] Solution Machines refers to the heavy duty machines as against portable power tools which has the job taken to it while mounted.

37. Identify the name of the blade drawn in number '5'?



- A. Cutoff blade
- B. Plane blade
- C. Combination blade
- D. Plywood blade

The correct answer is option [D]

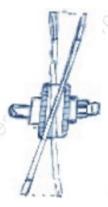
- 38. The combination blades are designed for \_\_\_\_\_\_.
- A. ripping
- B. crosscutting
- C. various sawing operations
- D. all of the above

The correct answer is option [D]

- 39. What is another name for a blind dado?
- A. Cross dado.
- B. Close dado.
- C. Stop dado.
- D. None of the above.

- 40. On the circular saw, it is always true that \_\_\_\_\_\_.
- A. when ripping, place the jointed edge against the edge
- B. you don't remove scraps with finger but with push stick or brush
- C. guard should be slightly below the level of the teeth
- D. all of the above

41. The drawing illustrates \_\_\_\_\_



- A. lathe machine face plate turning action
- B. loosed circular sawing machine blade in motion
- C. assembly of wobble saw
- D. none of the above

The correct answer is option [C]

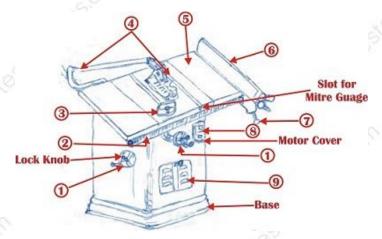
- 42. What is meant by "resawing"?
- A. Ripping a board along its width to make two thin boards.
- B. Sawing the same line again mistakenly.
- C. Sawing timber again after conversion.
- D. Crosscutting a board across its length to make two short boards.

The correct answer is option [A] Solution: resawing is ripping a board to produce two thin boards.

- 43. Why is stop block used when cutting a stop dado?
- A. To stop the circular saw blade.
- B. To block the saw from cutting the hand.
- C. To control the length of cut.
- D. All of the above.

The correct answer is option [C] Solution: Stop block is clamped to the table to control the length of cut.

## 44. The arrow '8' represents what part?



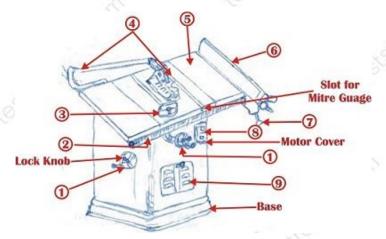
- A. Clamp lever.
- B. Mitre guage.
- C. Saw dust clean-out.
- D. Switch.

45. Which teeth style is the fastest cutting of the various combination saws and also used on all types of machines?

- A. "U"
- B. "V"
- C. "S"
- D. "T"

The correct answer is option [B]

46. What part is the arrow labelled '9' pointing to?



- A. Clamp lever.
- B. On and off switch.
- C. Sawdust clean-out.
- D. Guard and splitter.

- 47. The easy-cut blade is designed for \_\_\_\_\_ work.
- A. ripping
- B. cut off
- C. combination
- D. all of the above

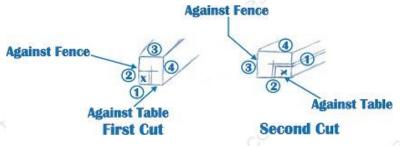
- 48. \_\_\_\_\_ Blade is used for cutting along the grain only.
- A. Rip
- B. Easy-cut
- C. Cut-off
- D. Planer

The correct answer is option [A]

- 49. What is dado in the use of circular saw?
- A. A rebate cut along the grain.
- B. A mortise cut across grain.
- C. A groove cut across grain.
- D. None of the above.

The correct answer is option [C]

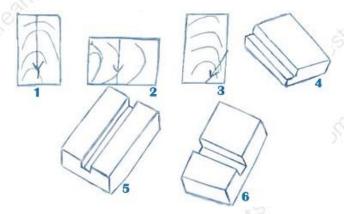
50. What does the diagram illustrate in the use of a single saw blade?



- A. Steps to ripping the square edged timber
- B. Steps to grooving a square timber.
- C. Steps to cutting a rebate.
- D. Steps to cutting a trench.

51. What does the diagram illustrate with the use of a	a circular saw?
A. Cutting a rebate with a single saw blade.	
B. Cutting a groove with a single saw blade.	
C. Cutting a groove with a dado head blade.	
D. Cutting trench with a single saw blade.	
The correct answer is option [B]	
53. Use of 300mm long to pass the end of a	a short piece through.
A. push stick	
B. push block	
C. pass rod	
D. push bar	
The correct answer is option [A]	
Step.	
54. Stop block should be used when	
A. cutting a through dado	
B. cutting a blind or stop dado	
C. cutting to prevent accident	
D. stopping the circular saw	
The correct answer is option [B]	

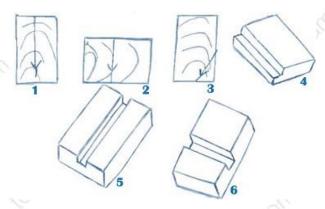
56. The circular saw operation in the diagram labelled '1' is \_\_\_\_\_\_.



- A. crosscut
- B. ripping
- C. mitre cut
- D. grooving

The correct answer is option [B]

57. Which operation is shown by the drawing labelled '2' in the diagram?



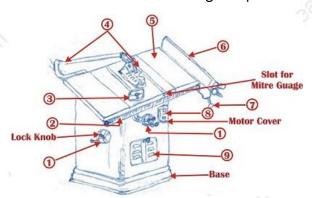
- A. Cross cut
- B. Rip cut
- C. Groove cut
- D. Mitre cut

- 58. Generally the two ways of adjusting the circular saw are \_\_\_\_\_.
- A. adjust depth of cut and width of cut
- B. adjust depth of cut and tilting for bevel cutting
- C. adjust length and breadth cutting
- D. adjust up and down cutting

- 59. How many cuts are necessary to make a rebate on a circular saw with a single saw blade?
- A. 1
- B. 2
- C. 3
- D. 4

The correct answer is option [B]

60. The arrow '4' in the diagram points at \_\_\_\_\_\_



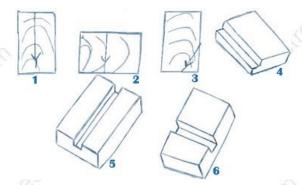
- A. fence clam lever
- B. guide bar
- C. ripping fence
- D. guard and splitter (riving knife)

- 61. The circular saw is used to \_\_\_\_\_.
- A. rip
- B. cross cut
- C. mitre
- D. all of the above

- 62. When cutting a very narrow stock it is better to \_\_\_\_\_
- A. cut half the length, reverse and cut from the other end
- B. cut through from one end
- C. cut the length into two, cut each separately
- D. cut with a narrow blade

The correct answer is option [A]

63. Which sawing operation is shown in the drawing '6'?

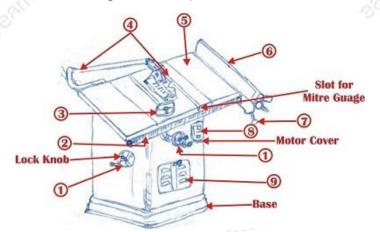


- A. Grooving
- B. Trenching
- C. Rebating
- D. Beveling

The correct answer is option [B]

Solution: Trenching is opening the middle of a timber across the grain.

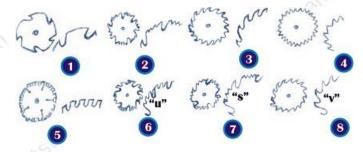
### 64. In the diagram, what part is arrowed '6'?



- A. Ripping fence.
- B. Fence clamp lever.
- C. Guide bar.
- D. Riving knife.

The correct answer is option [A]

65. The drawing illustrates types of \_\_\_\_\_



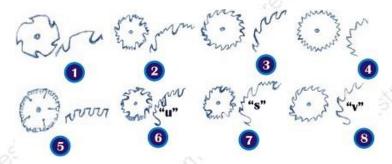
- A. disc sanders
- B. metal templates
- C. circular saw blades
- D. band saw blades

The correct answer is option [C]

66. The wobble washes are used for \_\_\_\_\_

- A. cutting rebates
- B. cutting trenches
- C. cutting grooves
- D. mitre cutting

67. What type of blade is drawn in number '3'?



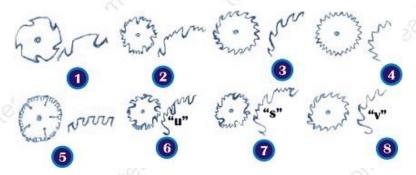
- A. Rip blade
- B. Cross-cut blade
- C. Plywood blade
- D. Plane blade

The correct answer is option [A]

- 68. \_\_\_\_\_blade is also known as cut off blade.
- A. Crosscut blade
- B. Easy-cut blade
- C. Rip blade
- D. Plywood blade

- 69. The recommended combination teeth style for radial-arm saws is marked
- A. "U"
- B. "V"
- C. "S"
- D. "O"

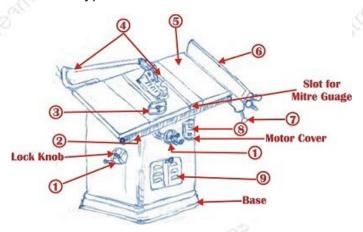
70. In the diagram, the blade in number '1' is called \_\_\_\_\_ blade.



- A. plywood
- B. easy-cut
- C. cut off
- D. rip

- 71. Why are washers used in the assembly of wobble saw for cutting grooves?
- A. The washers provides friction for fine cutting
- B. The washers cause the blade to run out of line, thus making a wide cut
- C. The washers cause the blade to run in line thus making a wide cut
- D. Washers provides a padding effect for a firm grip of the blades by the nut *The correct answer is option [B]*

## 72. What type of woodwork machine is drawn?



- A. Circular saw
- B. Surface planer
- C. Thicknesser
- D. Band saw

# **TOPIC: MACHINES AND MAINTENANCE**

# DIRECTION: Choose the correct answer from the lettered options.

i. As a way of maintenance what should be	e done to the saw dust as the	еу тап?
A. Should be left until the days work to av	oid delay.	
B. Should be spread round the machine.		
C. Should be removed as often as they or	ccur.	
D. Should be allowed to touch the saw be	efore cleaning them.	
The correct answer is option [C]		
2. As a form of maintenance any cracked of	or torn belt should be	
A. sewn or sticked		
B. removed and replaced		
C. soaked and painted		
D. all of the above		
The correct answer is option [B]		
3. Regular maintenance involves all except	t	
A. servicing machines		
B. resharpening of blades		
C. oiling of moving parts		
D. cooling of blades		
The correct answer is option [A]		
4. What importance is rubbing grease on a	a saw?	
A. So that cleaning becomes easy.		

B. To avoid rust and friction.

- C. To make the saw to shine like new one.
- D. All of the above.

The correct answer is option [B] Solution: Grease rubbed on a saw removes rust and friction to a large degree.

- 5. Maintenance of machines also include all except \_\_\_\_\_
- A. cleaning and dusting machine daily
- B. feeding the machine with speed
- C. checking and removing spoilt plugs, sockets and leads
- D. checking and removing pieces of sticks and metal stuck to any part of the machine

The correct answer is option [B]

- 6. If suddenly the saw kerf becomes tight, what might be the problem?
- A. The saw may not be sharp
- B. The saw teeth may be broken
- C. The power may be low
- D. The setting may have been removed

The correct answer is option [D] Solution: Poor setting might be a more likely reason for tight kerf.

- 7. Water used to cool down saw should not be allowed to trickle down the lead, why?
- A. It may cause shocking danger
- B. It will cool the lead which is not important
- C. It will wet the floor
- D. All of the above

8. Once a saw teeth is	broken or cracke	d		
A. throw it away as us	eless			
B. sell it to scavenger	s for other uses			
C. re-shape or top th	e teeth as approp	riate		
D. all of the above				
The correct answer is re-setting or topping	•	tion: Broken teeth l	need either re-sha	aping an
9. The periodic mainte	enance includes _			
A. re-sharpening of b	lades			
B. oiling of moving pa	rts			
C. over-hauling of ma	nchines			
D. all of the above				
The correct answer is are over-hauled (serv	•	tion: From time to t	'ime (periodic) ma	chines
10. Since water suppo		ring should be don	e to saws often co	ooled
A. it should be sold o	nce it rusts			
B. it should be kept d	ry after work			
C. it should be grease	ed after work			
D. it should be dried a	and hung up a wal	I ,		
The correct answer is and be sold is not mai		on: That the saw sl	nould be left until	it rust
11. Which of the follow	ing is not a mainte	enance equipment	200	
A. Slip stone.				
B. Wire brush.				
C. Oil stone.				

D. Spoke shave.		
The correct answer is option [	[D]	
Solution: spoke shave as a had	and tool is not a maintenance equipment.	
12. If on the process of sawing reason?	g, the wood start tightening the saw, what	might be the
A. Friction due to wood fibre.		
B. Friction due to wood sap c	content.	
C. Setting might have been re	emoved due to long usage of saw.	
D. All of the above.		
The correct answer is option [	[D]	
13. Which of the following is no	ot a cause of cracked or worn out belts?	
A. Long use.		
B. Cracked pulley.		
C. Regular feeding.		
D. Overheating.		
	[C] Solution: Regular feeding of stock or regular feeding that can cause overheati	
14. Periodic over-hauling is ma	aintenance by	
A. loosing, cleaning and tighti	ing of blades	
B. loosing parts of machines,	cleaning and reassembling parts	
C. loosing and rewinding of co	oils	
D. loosing, oiling and replacing	ng of guards and fences	
The correct answer is option [ whole major PARTS of the ma	[B] Solution: Over-hauling is maintenai achine not a PART.	nce of the

should be done?	, wh
A. Inject lubricating oil on the saw body.	
B. Sprinkle water, it may be wood sap or heat.	
C. Put wooden wedge, it may be growth defect.	
D. All of the above.	
The correct answer is option [D]	
16. What should be done to a saw that is no more free as it started?	
A. Take it to blacksmith to reduce the thickness.	
B. Reset the saw teeth.	
C. Push a wedge stick into the kerf to widen it.	
D. All of the above.	
The correct answer is option [B]	
17. How long should an operator wait to embark on CORRECTIVE maintenance	? 0
17. How long should an operator wait to embark on CORRECTIVE maintenance  A. When the machine is in use but a fault is not detected	?
	?
A. When the machine is in use but a fault is not detected	?
A. When the machine is in use but a fault is not detected  B. As soon as the fault is detected	?
<ul><li>A. When the machine is in use but a fault is not detected</li><li>B. As soon as the fault is detected</li><li>C. Before the machine is put into use as provided by the manufacturer</li></ul>	
A. When the machine is in use but a fault is not detected  B. As soon as the fault is detected  C. Before the machine is put into use as provided by the manufacturer  D. None of the above  The correct answer is option [C] Solution: Corrective maintenance is meant to correct already known fault.	
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<ul> <li>A. When the machine is in use but a fault is not detected</li> <li>B. As soon as the fault is detected</li> <li>C. Before the machine is put into use as provided by the manufacturer</li> <li>D. None of the above</li> <li>The correct answer is option [C] Solution: Corrective maintenance is meant to correct already known fault.</li> <li>18. The following need daily maintenance, except</li> <li>A. blades</li> </ul>	

The correct answer is option [C]	Solution: It is only the electric motor	that does not
need daily maintenance.		

19. When not in use saws should be	
A. cleaned and hung on a wall peg	
B. dropped on the rear table	
C. kept on the floor	
D. left on the woodwork bench	
The correct answer is option [A]	
20. Belts should be used only when they are	
A. crack free	
B. cracked	
C. newly bought	
D. oiled	
The correct answer is option [A]	

- 21. When should an operator embark on a PREVENTIVE maintenance of woodwork machines?
- A. When the machine is in use but a fault is not detected yet.
- B. When the machine has shown a fault.
- C. As soon as the machine is bought and put into use.
- D. None of the above.

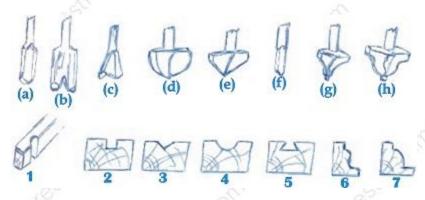
The correct answer is option [A] Solution: When the machine is in use but a fault is not detected yet, preventive maintenance comes in.

- 22. The circular saw machine can be maintained by all except \_\_\_\_\_\_.
- A. re-sharpening the blade regularly
- B. cooling the blade as often as it cuts
- C. greasing the moving parts periodically
- D. heating and drying the blade regularly

## **TOPIC: PORTABLE POWER TOOL AND MAINTENANCE**

#### **DIRECTION:** Choose the correct answer from the lettered options.

1. When cutting the shape labelled '4', which bit in the first set of diagram should be used?



- A. d
- В. е
- C. g
- D. h

The correct answer is option [A]

- 2. Why shouldn't an operator hold a small stock by the hand when working?
- A. The hand might be injured
- B. The stock may be lifted and cause accident
- C. The stock may be shaking, causing bad cutting
- D. all of the above

- 3. Why is the power saw teeth set to just project through the thickness of the board?
- A. To prevent overloading.
- B. To prevent overheating.
- C. To prevent splintering

D. all of the above.	
The correct answer is option [C] Solution the thickness of the board prevents splin	on: Setting the blade to just project through ntering.
4. Portable power jig saw is used to cut _	shapes.
A. straight	
B. curved	
C. irregular	
D. all of the above	
The correct answer is option [D]	
5. Rigid disc type sanders are used for	x&55
A. squaring ends	
B. trimming mitres	
C. shaping end chamfers and bevels	
D. all of the above	
The correct answer is option [D]	
6. Some attachment convert the drill into	power tools such as
A. circular saw	
B. sanders	
C. power plane	
D. all of the above	
The correct answer is option [D]	
7. Special drill attachment for cutting incl	ude all except
A. hole saws	
B. rotary drum cutter (surform)	

- C. corrugated blade (corrucut)
- D. cone saws

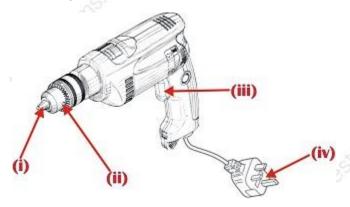
- 8. Power drill has fast and slower speed type, the fast speed drill is used to drill
- A. wood
- B. metal
- C. masonry
- D. none of the above

The correct answer is option [A]

- 9. Jig saw blade for general use is about \_\_\_\_\_ long.
- A. 25mm
- B. 55mm
- C. 75mm
- D. 150mm

The correct answer is option [C]

10. The part labelled 'iv' is known as \_\_\_\_\_\_

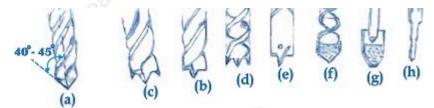


- A. three pin plug
- B. three pin jaw chuck
- C. insulated trigger

#### D. gear selector

The correct answer is option [A]

11. What is the name of the drawing labelled 'h'?



- A. Masonry drill
- B. Glass drill
- C. Screw bit
- D. Spur bit

The correct answer is option [C]

- 12. Which of the following is not a safety measure observed when using the router?
- A. Make adjustment while the cutter is moving so that no time will be wasted.
- B. Keep both hands on the handles.
- C. Securely clamp the work piece.
- D. For stopped trenches and grooves switch off before lifting the router.

The correct answer is option [A] Solution: It is not safe to make any adjustment while the router is moving.

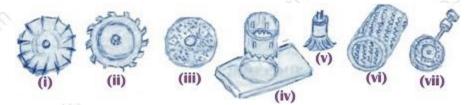
- 13. Types of power saw blades includes all except \_\_\_\_\_\_.
- A. silver oxide disc
- B. silicon carbide disc
- C. tungsten carbide tipped
- D. aluminum oxide disc

- 14. Home duty power tools has all these characteristics except \_\_\_\_\_.
- A. they are light to medium intermittent use only
- B. they cannot be heated-up when forced
- C. they are suitable for home use
- D. they are fitted with sleeve bearings or bushes

- 15. With special blades power saw can be used to cut \_\_\_\_\_
- A. rods
- B. bricks
- C. asbestos
- D. all of the above

The correct answer is option [D]

16. Which of the drawing is wire brush attachment?



- A. iii
- B. iv
- C. v
- D. vi

- 17. Types of belt sanders include \_\_\_\_\_.
- A. portable self-powered tools

B. stationary	sanders
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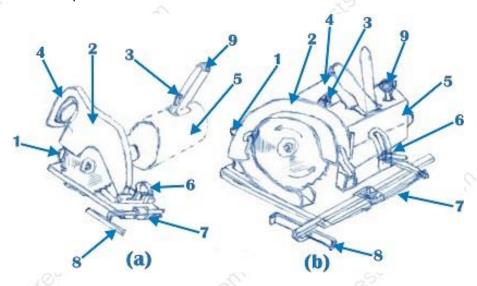
- C. portable spindle drive drill attachment
- D. all of the above

- 18. Power router can easily without waste \_\_\_\_\_.
- A. rip
- B. crosscut
- C. plane
- D. none of the above

The correct answer is option [D] Solution: none of the above can easily be done with router without wastes.

- 19. Which of the following is not a safety measure with regards to the use of power sander?
- A. Never touch the edge of a moving belt or disc
- B. Use water and brush while the machine is moving to clean the abrasive
- C. Be sure no nicks or tears in the edge of a disc or belt
- D. Lower the sander with the heel touching the work first

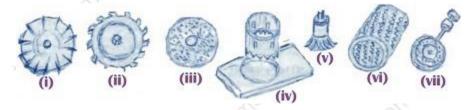
### 20. The part labelled '7' is known as \_\_\_\_\_



- A. cutting guide notch
- B. ripping fence
- C. tilting quadrant
- D. tilting guide

The correct answer is option [A]

### 21. Which attachment is drawn in 'i'?



- A. Circular saw
- B. Hole saw
- C. Corrucut
- D. Mortiser

The correct answer is option [C] Solution: The corrucut has corrugated blade that does a variety services, rebating, grooving, trenching etc.

# **TOPIC: SAFETY RULES IN THE MACHINE SHOP**

# DIRECTION: Choose the correct answer from the lettered options.

1. Safety rules on switching on sh	nould include all except
A. stand on the right or left when	n switching on
B. do not allow others to stand i	n line with the blade
C. stand directly in line with the	blade
D. allow the motor to reach full s	speed before sawing
The correct answer is option [C] the blade.	Solution: It is not safe to stand directly in line with
2. Check all of the following exce	ept before using the band saw.
A. clothing	
B. spur Centre	
C. guards	
D. blade	
The correct answer is option [B]	
3. On switching-on, do all excep-	t
A. observers should stand a goo	od distance away
B. note the sound of the machin	ie o se
C. don't stand in the front of the	machine
D. report any noises	
The correct answer is option [C]	
4. Clearance block is used for	

A. passing th	e timber through the	saw	
B. repetition	ripping		
C. repetition	cross cutting		
D. constant c	utting		
	nswer is option [C] and helps throw the p	Solution: Clearance block is used piece back.	for repetition
5. In the use of	of circular saw one sh	ould	
A. use correc	t saw for the job		
B. use sharp	saw		
C. properly s	et saw		
D. all of the a	bove		
The correct a	nswer is option [D]		
6. When ripping	ng a long board cut w	ith the	
A. curved ed	ge against the fence		
B. straight ed	lge against the fence		
C. surface no	ot touching the table		
D. all of the a	bove		
The correct a	nswer is option [B]		
7. Why should	I we not saw freehand	1?	
A. The timber	will dirty the hand if r	not covered	
B. To avoid s	hock from the switch		
C. To avoid ir	njury from wood		
D. Freehand	is only for the adults		
The correct a splitters and s	•	Solution: Free hand will cause inju	ry from wood

8. When it is required to rebate then rip to required size.	a wide board and a small strip, rebate	
A. wide board first		
B. small strip first		
C. wide and strap at once		
D. none of the above		
The correct answer is option [A required size.	A] Solution: Rebate wide board first th	nen rip to
9. Why should cylinderical work	be clamped to a suitable jig?	
A. Because jig is a machine ne	xt to band saw.	
B. Because the cylinderical job	tends to spin and draw into the saw.	
C. Cylinderical jobs are cut onl	ly on the lathe machine.	
D. Cylinderical jobs can always	cut the blade.	
•	B] Solution: Because the cylinderical jo it cannot be held by hand firmly.	bs tend to spin
10. For final surface planning	cut is sufficient.	
A. 1.5mm		
B. 2.7mm		
C. 0.7mm		
D. 1.9mm		
The correct answer is option [C	2)	
11. For the tailstock, do all the fo	ollowing except	
A. screw tailstock center tightly	y into the job	
B. dead center should not be v	well pointed to avoid splitting wood	
C. tighten tailstock spindle clar	mp lever	

D. grease or wax dead center end of wood	
The correct answer is option [B]	
12. What is the effect of too much down-pressure on war	oed thin stock?
A. The wood will break	
B. It will not allow the machine produce a true surface	
C. It will cut the hand	
D. It will stop the machine and the source of power	
The correct answer is option [B] Solution: Too much do stock will make the machine plane poorly.	wn pressure on warped
13. The following are true to polishing a turned piece exc	ept
A. use cotton waste	
B. use a small pad to apply polish	
C. use no loose ends that may catch on the job	
D. hold cloth under the work	
The correct answer is option [A]	
14. Screws through face plate should be	
A. tight, but not over-turned	
B. loose and over-turned	
C. tight and well glued	
D. all of the above	
The correct answer is option [A]	
*65°	
15. Safety precautions on lathe include all except	_·
A. safe clothing	
B. check stock of nails, knots etc.	

D. precaution when fitting blades	
The correct answer is option [C] Solu arbor is for the circular saw and not tu	ution: Precaution when fitting blades to the urning lathe.
16. Spur centre should be driven into _	
A. pencil marks	
B. bored holes	
C. saw cuts	
D. biro marks	
The correct answer is option [C] Solu spur centre is driven.	ntion: Saw cut are made diagonally on which
17. It is safer to plane on the s	urface planer.
A. diagonally	
B. along the grain	
C. across the grain	
D. from any angle	
The correct answer is option [B]  18. For correct setting-up blade check	k out includes all except
A. fitting of blade cutting on down stro	A. A
B. guide and pressure foot should not	
C. blade secured and in correct size of	-01°
D. sufficient tension on the blade to k	
The correct answer is option [B]	
19. What is the shortest size by the en	nd that can be planed safely on the jointer?

C. setting-up tool rest

A. 450mm		
B. 900mm		
C. 150mm		
D. 250mm		
The correct answer is option [D]		
20. For a better setting, the teeth sho job.	uld project about	above the top of tl
A. 8 – 10mm		
B. 2 - 3mm		
C. 35 - 65mm		
D. 50 - 100mm		
The correct answer is option [A]		
*SITO		
21. Before you start cutting on band sa	aw	
A. allow the saw to attain full speed		
B. hold the work flat on the table		
C. mark the design to be cut		
D. all of the above		
The correct answer is option [D]		
22. Adjust the saw guide and sliding g thickness of the work.	uard until it is about	above the
A. 2mm		
B. 5mm		
C. 10mm		
D. 20mm		
The correct answer is option [B]		

23. The drive rod used for removing s	pur centre is removed from
A. tailstock	
B. headstock	
C. tool-rest	
D. bed	
The correct answer is option [B]	
24. When should the guard be remov	ed?
A. When ripping	
B. When cross cutting	
C. Rebating	
D. Jointing	
The correct answer is option [C]	
Solution: When rebating the guard ha	as to be removed.
25. When using the lathe you should	<u> </u>
A. give full attention to the work	
B. not lean over the revolving job	
C. stand to one side when switching	on
D. all of the above	
The correct answer is option [D]	
26. What accessory should be used v	when ripping narrow pieces of wood?
A. Clearance block	
B. Push stick	
C. Push block	
D. All of the above	

through the sav	V.				
27. When feedir	ng the work observ	ve all except	·		
A. don't feed w	ork directly				
B. feed work slo	owly				
C. feed work fa	stly				
D. give the blac	de time to cut				
cut when forced	swer is option [C] of or it will cut badi	'y.	Streams	/ but slowly. It	' will not
×6)	the wood be fed	1	iade?		
	eeth time to cut a				
	nd saw motor is a (				
	nd saw uses a low	power.			
D. All of the abo					
The correct ans	swer is option [A]				
29. What is the	thinnest piece of	stock that can b	e planed safely	y on the jointe	er?
A. 3mm					
B. 5mm					
C. 7mm					
D. 9mm					
The correct ans jointer.	swer is option [D]	Solution: This is	the thinnest s	size to be plai	nned in a
30. The tool res	st should be	on the top.			
A. rough					
B. smooth					

The correct answer is option [B] Solution: Push stick is used to pass narrow piece

C. grooved	
D. scratched	
The correct answer is option [B]	
31. You have to switch off to do all of	the following except
A. to make adjustments	
B. when you have finished work	
C. to change blades	
D. when you want to take another pie	ece
The correct answer is option [D]	
32. Use to pass the piece thr	ough the surface planer's cutter.
A. push block	
B. push stick	
C. push pattern	
D. pull block	
The correct answer is option [A]	
33. To protect the hand, it is safe to $\_$	·
A. keep fingers away from the blade	
B. not to reach past the blade	
C. use push sticks	
D. all of the above	
The correct answer is option [D]	
×O	
34. Keep the fingers away fro	om the cutters.
A. 40mm	
B. 60mm	

C. 80mm		
D. 100mm		
The correct answer is option [D]		
35. For convenience on the same p	piece, the first work among the following is	
A. cross cut first		
B. groove first		
C. rip first		
D. rebate first		
The correct answer is option [C]		
36. Keep your finger at least	_ away from saw blade.	
A. 20mm		
B. 30mm		
C. 50mm		
D. 75mm		
The correct answer is option [D]		
cour.		
37. Drive spur centre into saw cuts	with .	
A. hammer		
B. screw driver		
C. mallet		
D. machete		
The correct answer is option [C] spur centre into wood.	Solution: Only mallet is suitable for use to drive	in
spar centre into wood.		

A. During internal cutting	
B. When mitring a piece	
C. When ripping a job	
D. During cross-cutting	
The correct answer is option [A]	
39. When planning a cupped stock,	place the on the table.
A. hollow side	
B. convex side	
C. hollow and convex side	
D. middle side	
The correct answer is option [A]	
est <sup>en</sup>	
40. The following are the reasons fo	r using sharp knives except
A. sharp knives may cut the hands	
B. dull knives vibrates the wood	
C. dull knives may cause 'kick-back	
D. sharp knives produces sharp wo	rk
The correct answer is option [A]	
41. Which of the following is not a pa	art of a circular saw safety test?
A. Requirement for preparing a stoo	ck for cutting
B. The use of clearance block	
C. The use of push block	
D. Safe switching and fingers positi	on rules
The correct answer is option [C]	

38. When is a start hole bored at corners of a stock?

42. What proves a g	ood workshop floo	r?		
A. It is clear of scra	ps.			
B. It provides a goo	od foot-hold.			
C. It is not slippery	or shined.			
D. All of the above.				
The correct answer	is option [D]			
43. Check settings s	should include all e	xcept		
A. adjusting the fen	ce so that the stoc	k will not bind in	the teeth	
B. guard should be	slightly below the l	evel of the teeth		
C. use a clearance	block or fence which	ch extends just p	oast the first too	oth
D. guard should be	slightly above the	level of the teeth	า	
The correct answer	is option [B]			
-516				
44. For safety, face	place stock should	have cor	ners.	
A. sharp				
B. curved				
C. removed				
D. painted				
The correct answer removed or cut to a		tion: Corners of	face plate stoci	k should be
45. Tool rest should	be adjusted close	to work within	p <sup>+</sup>	
A. 3mm				
B. 9mm				
C. 15mm				
D. 20mm				
The correct answer	is option [A]			

		Capentry Exam Question	ons and Answers Pa
× 1	46. Use slow speed for all except		
	A. roughing of corners of square block		
	B. a glued stock		
	C. large diameter work		
	D. short length pieces		
	The correct answer is option [D] Solution: Sh	ort length needs fast	speed.
	47. During internal cuttings do all except		
	A. release tension on table first		
	B. remove tension from the jaw first		
	C. bore start holes on corners of a stock		
	D. all of the above		
	The correct answer is option [B]		
	Solution: Tension is removed from the jaw aft	er it has been remove	ed from the table.
	48. The safety distance between the band sa	w and the observer sh	ould be about
	A. 300mm		
	B. 1m		
	C. 3m		
	D. 6m		
	The correct answer is option [B]		
	49. For initial surface planning cut is	s sufficient.	
	A. 1.5mm		
	B. 3mm		
	C. 3.5mm		
	100		

D. 6mm				
The correct and timber.	swer is option [A]	Solution: This is acc	eptable thickness	for a roug
umeer.				
50. A right blac	le when tapped so	ound like		
A. a drum				
B. a bell				
C. a clock				
D. a pipe				
	swer is option [B] sound like a bell.	Solution: A right bla	de when tapped w	ith the
51. Clicking noi	se indicates all exc	cept		
A. the blade is	new			
B. the blade ha	as cracked			
C. the blade is	not tracking prope	erly		
D. the blade is	about to break			
The correct and	swer is option [A]			
52. Why should circular saw?	l one straight edge	e go against the fence	edge when cuttir	ng on a
A. To get any o	other piece that is	cut to be straight edg	ged	
B. So that it wo	on't be planed afte	r cutting		
C. So that the	fence will keep it f	rom falling away		
D. To get anot	her piece that is cu	ut very short		
The correct and	swer is option [A]			
53. The guards	have all these cor	nditions except		
A. remain wher	e it is adjusted			

B. cannot be adjusted	
C. must move to cover the knives	
D. be adjusted	
The correct answer is option [B] Solution: The importance of a guard is adjusted to cover the knife.	that it is
54. The circular saw should be	
A. correctly and securely mounted on the arbor	
B. not be mounted on the arbor	
C. correctly and loosely mounted on the arbor	
D. incorrectly and loosely mounted	
The correct answer is option [A]	
55. Which of the following is not inspected and checked on circular saw?	
A. Loose clothing.	
B. Condition of the tool rest.	
C. Working condition.	
D. Machine maintenance.	
The correct answer is option [B] Solution: Condition of the tool rest is in and checked on the lathe not circular saw.	spected
56. Holding the stock to stop the lathe will	
A. injure the hand	
B. heat up the motor	
C. shift the setting at the spur centre	
D. all of the above	
The correct answer is option [D]	

- 57. What danger can scraps left on the table or floor cause in the machine workshop?
- A. Students may carelessly write on them.
- B. Students may playfully set fire on them.
- C. One may stumble on them and fall on a moving machine.
- D. All of the above.

The correct answer is option [C] Solution: If scraps are not removed, one may step on them and fall or machine may collect them accidentally.

- 58. Which of the following is not a working condition?
- A. Wear suitable clothing when suitable.
- B. Remove scraps from saw table and floor.
- C. Do not eat or drink in the machine workshop.
- D. Do not touch moving machine blade.

The correct answer is option [C] Solution: Eating and drinking in the machine workshop is not a working condition to be avoided.

- 59. Which of the following is a maintenance condition?
- A. Grease nipples require regular oiling or greasing.
- B. Don't distract machine operator.
- C. Wear hand gloves and goggles while polishing.
- D. Use wet cloths while polishing.

- 60. What are the things to set-up every day in a circular saw?
- A. Guards, blades and fence
- B. Guards, knots and stand
- C. Table, belts and control switch
- D. All of the above

The correct answer is option [A]

Solution: The guards, blades and fence are checked and adjust or set every day.

- 61. Safety clothing in the use of the lathe does not include \_\_\_\_\_\_.
- A. wear coat and tie
- B. wear beret to keep hair in place
- C. wear eye goggles
- D. wear apron tied at the back

The correct answer is option [A] Solution: Remove coat, if tie is ever used tuck it in close to collar.

- 62. Students must never interfere with switch on or off control without permission because \_\_\_\_\_.
- A. the teacher wants to be sure they are in good condition
- B. switch on and off control is expensive
- C. students don't know the switch on and off
- D. students are not electricians

The correct answer is option [A] Solution: The teacher must ascertain the good condition of the switch controls before permitting a student.

- 63. Why is a clearance block fixed to the fence when crosscutting a number of pieces to the same length?
- A. To block any person coming to the machine
- B. Because cross-cutting is more difficult than rip-cutting
- C. So the cut pieces may wedge between the blade and fence and be thrown back
- D. So the pieces can be cut sharply

The correct answer is option [C] Solution: Wedging and throwing back the cut pieces is the use of clearance block.

<ul> <li>64. When you switch off the circular saw, don't leave until</li> <li>A. the saw stops</li> <li>B. 6:00pm</li> <li>C. the machine cools</li> <li>D. you re-sharpen the saw</li> <li>The correct answer is option [A] Solution: Wait until the saw stops anytime you sto the machine.</li> <li>65. In which of the following should you plane?</li> <li>A. Plane stock less than 250mm long.</li> <li>B. Plane stock less than 9mm thick.</li> <li>C. Plane stock more than 600mm long.</li> </ul>
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B. Plane stock less than 9mm thick.  C. Plane stock more than 600mm long.
C. Plane stock more than 600mm long.
D. Plane ends less than 250mm wide.
The correct answer is option [C]
66. Push sticks is a safety stick, prevents injury to the
A. eyes
B. feet
C. hand
D. head
The correct answer is option [C] Solution: Push sticks prevent the hand from touching the blade.
67 To see that the timber revolves clear of the tool rest for safety reasons.
A. Start the machine
B. Use the microscope
C. Call a supervisor

D. Turn the work by hand				
The correct answer is option	n [D]			
700				
68. What can make the blac	le not to run fr	ee?		
A. Dirt or rust				
B. Oil or grease				
C. Water or breeze				
D. All of the above				
The correct answer is optio	n [A]			
69. What to check before b	and saw is star	ted is		
A. if sleeves are rolled up, t	ie tuck and eye	e shield		
B. if there are scraps on the	e floor			
C. if switches, plug, lead et	c. are in order			
D. all of the above				
The correct answer is option	n [D]			
70. What is the shortest pie	ce of stock to	be planed safely	on the jointer?	
A. 100mm				
B. 250mm				
C. 450mm				
D. 900mm				
The correct answer is option	n [B]			
71. When working a long ma	terial, it is bette	er to		
A. carry the material alone	to avoid distra	ction		
B. look for a helper to main	tain a fine cut			
C. push through the saw, th	nen pull throug	h it alone to save	emoney	

D. all of the ab	oove			
The correct an	nswer is option [B]			
72. If slightly co	upped timber is to be o	cut in a circular sa	aw, which statement	t is correct?
A. Place the ro	ound side up on the ta	ble		
B. Place the ro	ound side down on the	table table		
C. Cut by the	edge side			
D. Cut by rubk	oing oil on the saw			
cut with the ro	nswer is option [B] So und side placed down	on the table.	vay to cut a cupped	d timber is to
73. When do o	ne switch off the main	power?		
A. To take mea	asurement			
B. To adjust th	ne fence			
C. To change	blades			
D. All of the ab	oove			
The correct an	swer is option [C]			
74. Jointer safe	ety test include all exce	ept		
A. precautions	s on mounting the face	e plate		
B. observing s	afe clothing rules			
C. knowledge	of the shortest and thi	innest stock to be	planed	
D. precautions	s on adjustments of gu	ards		
The correct an	nswer is option [A]			
	×est			
75. Why is it no	ot advise able to plane	very short or very	y narrow stock?	
A. Jack plane	can do it.			
D It is a wests	of time			

C. It may tilt and catch in the cutters.	
D. All of the above.	
The correct answer is option [C] Solution: It may tilt and catch in the cuthrown back.	itter and be
76. What instruction can be given to a helper for a fine cut?	
A. Never listen to the operator	
B. Look never touch the timber	
C. Never pull the work through the saw	
D. Move here and there in search of customers	
The correct answer is option [C] Solution: Never pull the work through operator has the right to feed the saw with a level of pressure, the helpe supports by drawing the piece.	
77. The circular saw safety first test should include	
A. state the purposes of a guard	
B. what adjustments are made on the circular saw in preparation for ripp	oing
C. how can one stand while switching on and off	
D. all of the above	
The correct answer is option [D]	
78. Observers must observe all except	
A. observers stay at least 1m away from the machine	
B. observers stay on the right hand side of saw	
C. observers must not operate any part of band saw for trying	
D. all of the above	
The correct answer is option [D]	

70. Lage jointi	ing does all except			
A. use left har	nd to press stock on t	the table		
B. use right ha	and to move the job			
C. to finish the	e cut hold down work	on the table		
D. keep both I	hands very close to tl	he knives		
The correct ar away.	nswer is option [D]	Solution: Hands must	be kept away a	about 100mm
anay.				
80. Why shoul switching on the		wed to stand directly	in line with the	blade when
A. There is no	place to stand on the	e front side		
B. Blade migh	t remove or fling part	icles that may cause	harm	
C. Operators I	know only how to sta	nd by the right or left	side	
D. Switches ar	re always by the left o	or right side		
The correct ar	nswer is option [B]			
		and cause accident or lirectly in line with the		cles of
81. When switc	hed off, stay until bla	de stops because		
A. a free runni	ing ban saw makes ve	ery little noise.		
B. another op	erator may not notice	e that it is still running	O.	
C. other mach	nines noise may cove	r the noise of the ban	d saw.	
D. all of the ab	oove.			
The correct ar	nswer is option [D]			
82. Operators	should look out for w	hich of these during s	sawing?	
A. Splits				

B. Loose knots	
C. Nails	
D. All of the above	
The correct answer is option [D]	
83. Why should the stock be fed slow	ly and evenly over the cutter?
A. Surface planer is a slow machine.	
B. Fast feeding causes ripples.	
C. The operator is not in a hurry.	
D. Fast feeding will consume more en	nergy.
The correct answer is option [B]	
84. Before sanding, you should	<u> </u>
A. remove the tool rest	
B. adjust lathe to run at slow speed	
C. prepare small squares of paper fo	r sanding
D. all of the above	
The correct answer is option [D]	
85. Before switching on the circular s	aw
A. see that the blade runs free.	
B. check the setting up.	
C. check the guards and fence.	
D. all of the above.	
The correct answer is option [D]	
86. When should you built up stock w	hen is be rejected for safety?
A. When it is not made of mahogany	wood

B. If the glue is not animal glue	
C. If the joints are open or badly glued	
D. All of the above	
The correct answer is option [C]	
87. Only the is adjusted for dept	h of cut in surface planer.
A. knife	
B. fence	
C. table	
D. guard	
The correct answer is option [C] Solution the cut.	tion: Only the table is adjusted for depth of
88. Which of the following is a standard of permitted to use a circular saw?	condition for a student before he is
A. He must speak good English	
B. He must pass circular saw safety test	
C. He must pass his WAEC examination	
D. He must be a wood work student	
The correct answer is option [B]	
89. If circular saw is not greased or oiled	, it may
A. catch cold and stop	
B. be heated and get free-wheeled	
C. cause friction that may even heat up	the parts or cause them to stop
D. cause the operator to save money sp	ent on the grease or oil for another thing
The correct answer is option [C] Solution movement of parts.	on: Grease and oil are needed for free

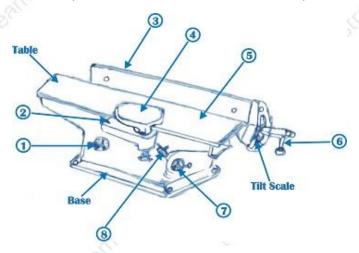
- 90. Why must a student obtain permission always before using the machine?
- A. Because the machine is used always.
- B. Because the machine might have developed a fault or set differently.
- C. The principal comes to the workshop always.
- D. The machine is not student's property.

# **TOPIC: THE SURFACE PLANER OR JOINTER**

## **DIRECTION:** Choose the correct answer from the lettered options.

i. The depth of cut to be take	п мін аерена он	
A. the width of the surface be	eing jointed	
B. the kind of wood and grain	n pattern	
C. whether you are making a	rough or finish cut	
D. all of the above		
The correct answer is option	[D]	
2. The guard is		
A. a protective device coveri	ng the cutterhead	
B. a supportive device for the	e work while it is fed	
C. a part of the cutter block		
D. all of the above		
The correct answer is option	[A]	
3. The cutter or blades of the cylindrical shaft called	surface planer are secured in s —.	lots in a horizontal
A. cutter cylinder		
B. cutter block		
C. blade shaft		
D. cutter box		
The correct answer is option	[B]	

4. What part does the arrow labelled '6' point to?



- A. Rebating table
- B. Front adjusting wheel
- C. Rear adjusting wheel
- D. French clamp

The correct answer is option [D]

- 5. A long table is desired because \_\_\_\_\_.
- A. it supports long job better.
- B. it produces true surfaces.
- C. it reduces the load on the operators.
- D. all of the above.

The correct answer is option [D]

- 6. Which of the following is true of the fence?
- A. It can be fixed at 90o
- B. It can be inclined at 45o 135o
- C. It can be moved across the table
- D. All of the above

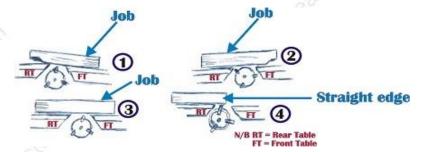
- 7. As safety measure on the jointer, do all except \_\_\_\_\_\_
- A. adjust the length of cut before the jointer is turned on
- B. see that the guard is in place and operating easily
- C. do not try to make too heavy a cut
- D. use your hand to clean shavings off the table

The correct answer is option [D] Solution: Do not use hand, use brush to clean shavings off the table.

- 8. Operations of the surface planer include \_\_\_\_\_
- A. planning chamfers
- B. planning bevels
- C. planning rebates
- D. all of the above

The correct answer is option [D]

9. What does the drawing labelled '4' illustrate?



- A. Planning a straight edge
- B. Testing a straight edge
- C. Setting the front table
- D. Setting the knife level with rear table

The correct answer is option [D] Solution: Straight edge is often used to set knife level with rear table.

	hat planes a job thr	oughout the lengt	h to the same thic	kness under
the surface plar	ner is called	- 510°		
A. surface plan	er			
B. under surfac	e planer			
C. thicknesser				
D. true planer				
The correct ans plans under the	swer is option [C] S e surface.	Solution: Thicknes:	ser is the surface բ	olaner that
	X05			
11. Another nam	e for machine calle	d jointer is		
A. surface plan	er			
B. circular saw				
C. drilling mach	nine			
D. lathe machin	ne			
The correct ans	swer is option [A]			
12. When is the	fence inclined to 45	5° - 135°?		
A. When squari	ng edges			
B. When rebatir	ng			
C. As support v	when chamfering an	nd beveling		
D. When planni	ng flat surfaces			
The correct ans	swer is option [C]			
13. The motor is cutter block.	connected to a pu	lley and a	belt connects the	shaft of the
A. "V"	×e5t			
B. "U"				
C. "C"				
D. "S"				

### The correct answer is option [A]

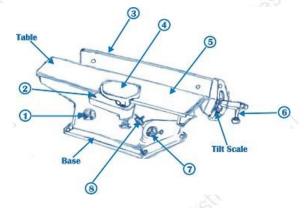
- 14. When the rear table is too low, \_\_\_\_\_
- A. the front of the piece will be gouged out
- B. the end of the piece will be gouged out
- C. the middle of the piece will be gouged out
- D. all of the above

The correct answer is option [B]

- 15. The guard is \_\_\_\_\_.
- A. a protective device covering the cutter head
- B. a supportive device for the work while it is fed
- C. a part of the cutter block
- D. all of the above

The correct answer is option [A]

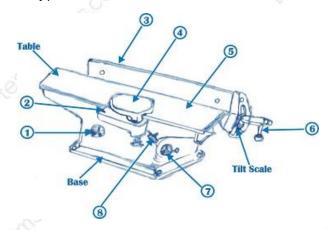
16. What part does the arrow '7' show?



- A. Depth scale.
- B. Front adjusting wheel.
- C. Rear adjusting wheel.
- D. Fence clamp.

## The correct answer is option [B]

17. What type of woodwork machine is drawn?



- A. Circular saw
- B. Mortiser
- C. Surface planer
- D. Thickneser

The correct answer is option [C]

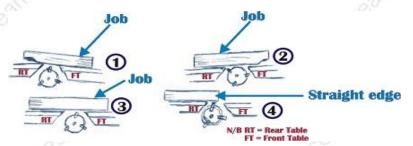
18. A standard surface planer has	adjustable tables.
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- A. one
- B. two
- C. three
- D. four

- 19. Average length of table ranges from \_\_\_\_\_\_
- A. 100 200mm
- B. 200 300mm
- C. 600 1200mm
- D. 1000 3000mm

The correct answer is option [C]	
20. When the rear table is too high,	
A. the front of the piece will be gouged out	
B. the end of the piece will be gouged out	
C. the middle of the piece will be gouged out	
D. all of the above	
The correct answer is option [A]	
21. With the thicknesser, which one of the following is true?	
A. It has an adjustable fence like the surface planer	
B. The planning is done in a rectangular space while surface planer is on the space	open
C. The thicknesser can reduce wood to any size, length and thickness	
D. The stock rests on the blade with the thicknesser and not the blade during planning	
The correct answer is option [B] Solution: On the thicknesser, job is done in rectangular hole under the cutter. The cutter block is above the job.	a
22. The depth of cut to be taken will depend on	
A. the width of the surface being jointed	
B. the kind of wood and grain pattern	
C. whether you are making a rough or finish cut	
D. all of the above	
The correct answer is option [D]	

23. What is the illustration of the drawing labelled '2'.



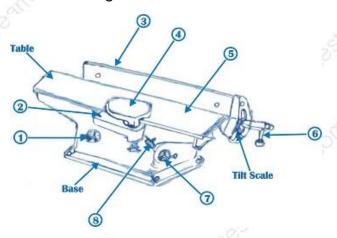
- A. Rear table too high
- B. Rear table too low
- C. Rear table set correctly
- D. Setting knife level with the rear table

The correct answer is option [B] Solution: If the rear table is too low, the end side of the job will be gouged out

- 24. As safety measure on the jointer, do all except \_\_\_\_\_\_.
- A. adjust the length of cut before the jointer is turned on
- B. see that the guard is in place and operating easily
- C. do not try to make too heavy a cut
- D. use your hand to clean shavings off the table

The correct answer is option [D] Solution: Do not use hand, use brush to clean shavings off the table.

25. In the diagram, arrow number '2' is called \_\_\_\_\_.

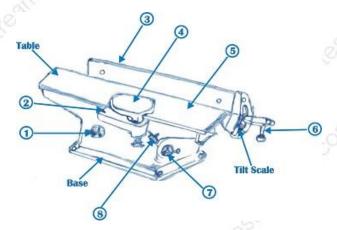


- A. depth scale
- B. rebating table
- C. front table
- D. fence clamp

The correct answer is option [B]

- 26. Why should the knives of the jointer be kept sharp always?
- A. Sharp knives take away too much wood at a time.
- B. Dull knives tend to cause kickback and bad planning.
- C. Sharp knives are dangerous to the hand.
- D. Sharp knives cause the knife to run fast and bad planning.

### 27. The arrow '8' shows \_\_\_\_\_



- A. depth scale
- B. rebating table
- C. front guard
- D. fence clamp

The correct answer is option [A]

28. The cutter or blades of the surface p	laner are secured in slots in a ho	orizontal
cylindrical shaft called		

A. cutter cylinder

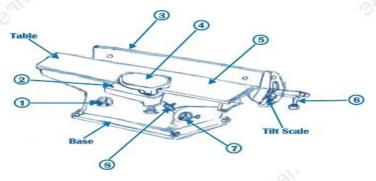
- B. cutter block
- C. blade shaft
- D. cutter box

The correct answer is option [B]

- 29. The out feed table is the \_\_\_\_\_ table.
- A. front
- B. back
- C. rear
- D. centre

30. If a blade projects more than others, the following will happen ex	cept
A. it will plane better, many blades will spoil the surface	
B. it will gouge out deeper hollow	
C. it may be the only one cutting	
D. more pronounced ridges will occur	
The correct answer is option [A]	
31. A machine that planes a job throughout the length to the same the surface planer is called	nickness under
A. surface planer	
B. under surface planer	
C. thicknesser	
D. true planer	
The correct answer is option [C] Solution: Thicknesser is the surface plans under the surface.	e planer that
32. A long table is desired because	
A. it supports long job better.	
B. it produces true surfaces.	
C. it reduces the load on the operators.	
D. all of the above.	
The correct answer is option [D]	

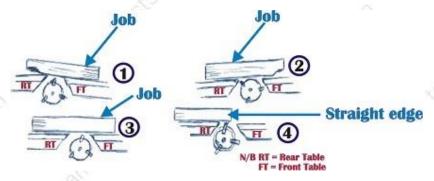
#### 33. What is the name of the arrow labelled '5'?



- A. Front table
- B. Rear table
- C. Front guard
- D. Rebating table

The correct answer is option [A]

## 34. What does the drawing labelled '4' illustrate?



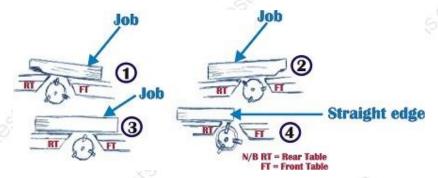
- A. Planning a straight edge
- B. Testing a straight edge
- C. Setting the front table
- D. Setting knife level with rear table

The correct answer is option [D] Solution: Straight edge is often used to set knife level with rear table.

- 35. When is the fence fixed at 90°?
- A. For chamfering
- B. For squaring edges
- C. During rebating
- D. All of the above

The correct answer is option [B]

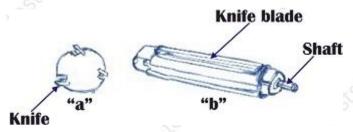
36. Why is both the front and the end of the drawing labelled '3' not gouged out?



- A. Rear table is set too high
- B. Rear table is set too low
- C. Rear table is set correctly
- D. None of the above

The correct answer is option [C]

37. The jointer accessory drawn is called \_\_\_\_\_



- A. knife or cutter
- B. cutter block
- C. push block

D	cutter	_	uard
υ.	Cutter	Ч	uaru

The correct answer is option [B]

- 38. The proper procedure for cutting a deep rebate on the jointer include all except
- A. the table is adjusted to the required depth of cut
- B. for this rebate operations, do not remove the guard
- C. two cuts and two settings are required to remove the waste to form the rebate
- D. alternatively, a series of cuts can be made to remove the waste

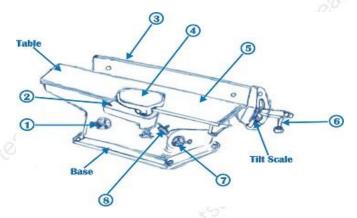
The correct answer is option [B] Solution: The guard has to be removed for this type of operation or methods of cutting a rebate.

- 39. The following are true of the thicknesser except \_\_\_\_\_\_
- A. it has top and under tables
- B. it can plane many pieces to the same thickness
- C. it can plane surface and under the surface
- D. it has two separate cutter head so it can plane both up and down

The correct answer is option [D] Solution: Thicknesser has only one cutter head that serves the up and down planning.

- 40. Which of the following is not true of the cutter head?
- A. It is used to set or reset the fence.
- B. It is known as the heart of the jointer.
- C. It consists of the head itself and the knives.
- D. The assembly usually operates on two roller bearings.

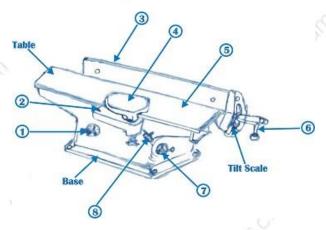
41. What is the name of the part labelled '3' in the diagram?



- A. Rear table
- B. Rebating table
- C. Fence
- D. Front guard

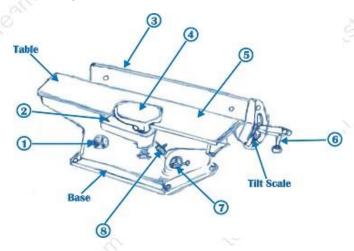
The correct answer is option [C]

42. \_\_\_\_ is the part in the diagram numbered '4'.



- A. Rear table
- B. Front guard
- C. Fence
- D. Fence clamp

43. The part of the machine labelled '1' is called \_\_\_\_\_.



- A. rear table adjustment wheel
- B. front table adjustment wheel
- C. depth scale
- D. rebating table

The correct answer is option [A]

- 44. \_\_\_\_\_ is the joinery machine used for high speed planning of surfaces and edges.
- A. Band saw
- B. Jack plane
- C. Surface planer
- D. All of the above

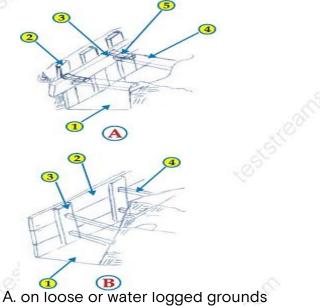
## **TOPIC: TIMBERING TO TRENCHES**

#### **DIRECTION:** Choose the correct answer from the lettered options.

- 1. The system of arrangement of the various members used in timbering are influenced by the \_\_\_\_\_.
- A. nature of the soil
- B. depth of excavation
- C. size of the trench
- D. all of the above

The correct answer is option [D]

2. In the drawing shown, "A" is known as



- B. on stony ground
- C. for moderately firm ground
- D. all of the above

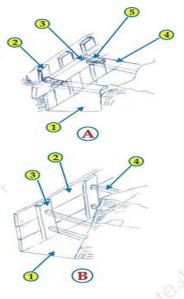
- 3. Whether is necessary or not depends on the \_\_\_\_\_.
- A. depth and nature of soil
- B. depth of trench only
- C. nature of soil only
- D. tool for the excavation

The correct answer is option [A]

- 4. Timbering of trenches is done to \_\_\_\_\_.
- A. strengthen the foundation
- B. beautify the trenches with timbers
- C. prevent the trench sides from collapsing
- D. prevent the concrete from collapsing

The correct answer is option [C]

5. The arrow '2' in the drawing shown is known as \_\_\_\_\_.

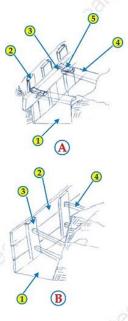


- A. waling
- B. poling board
- C. strut

### D. trench

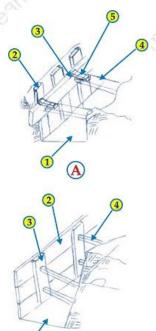
## The correct answer is option [B]

6. The arrow '4' in the drawing shown points at the \_\_\_\_\_.



- A. waling
- B. sheating
- C. strut
- D. trench

7. The part labelled '5' in the drawing shown is timber called \_\_\_\_\_.



- A. strut
- B. waling
- C. poling board
- D. lipblock

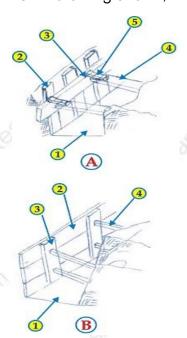
The correct answer is option [D]

- 8. Where the trench is shallow, the sides of the trench need to be \_\_\_\_\_.
- A. timbered
- B. battered
- C. cemented
- D. opened

- 9. In which of the following is needed to do all except \_\_\_\_\_\_
- A. saw
- B. hammer
- C. wood
- D. chisel

The correct answer is option [D]

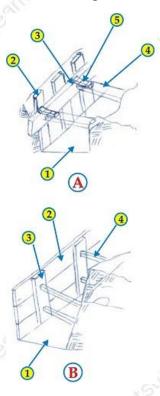
10. In drawing shown, 'B' is the on \_\_\_\_\_\_



- A. loose soil
- B. stony soil
- C. firm soil
- D. all of the above

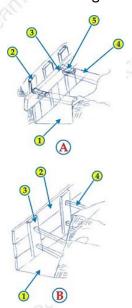
The correct answer is option [A] Solution: timbering for loose or water logged soil.

11. In drawing shown, the arrow '1' is called \_\_\_\_\_\_



- A. waling
- B. poling board
- C. strut
- D. trench

12. In drawing shown, "A and B" illustrates \_\_\_\_\_

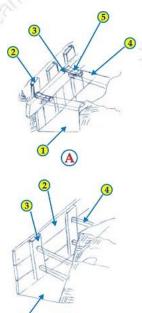


- A. timber seafold
- B. timber foundation
- C. timbering to trenches
- D. steps to trenches

The correct answer is option [C]

- 13. The purpose of includes to prevent \_\_\_\_\_.
- A. the sides of trenches from collapsing
- B. workman from being buried in when the trench will collapse
- C. tools from being covered because of collapse
- D. all of the above

14. The part labelled '3' in the drawing shown is called \_\_\_\_\_\_



- A. waling
- B. sheating
- C. strut
- D. trench

The correct answer is option [A]

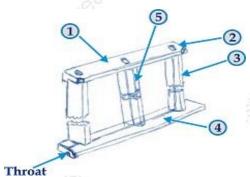
15. When the sides of foundation trenches are supported with timbers, it is said to be

- A. timber foundation
- B. timbering to trenches
- C. walling trenches
- D. all of the above

## **TOPIC: WINDOWS**

## **DIRECTION:** Choose the correct answer from the lettered options.

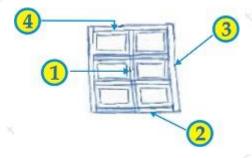
1. In the diagram, the part labelled '3' is called \_\_\_\_\_.



- A. horn
- B. stile
- C. sill
- D. mullion

The correct answer is option [B] Solution: Stile is the vertical frame or jamb.

2. What part is labelled '4' in the drawing shown?



- A. Bottom rail
- B. Stile
- C. Sash bar
- D. Top rail

3. The part with the arrow '4' is called . Throat A. stile B. mullion C. sill D. transom Solution: Sill or Cill is the down part of the frame. The correct answer is option [C] 4. Windows are pivoted \_\_\_\_ A. as louver B. horizontally

C. vertically

D. all of the above

The correct answer is option [D]

5. \_\_\_\_\_ is a spring action bolt or tongue held in a case which slide automatically and catch a striker plate by means of handle or knob attached to a spindle.

- A. Escutcheon
- B. Coach Bolt
- C. Latch
- D. Lock

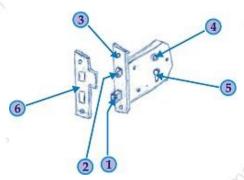
- 6. The day light size is measured from the \_\_\_\_\_.
- A. outside edges of the frame
- B. innermost edges of the frame
- C. the inside edges of the top and bottom
- D. all of the above

The correct answer is option [B]

- 7. \_\_\_\_\_ is required over the heads and under the sills to prevent moisture penetrating the internal wall.
- A. Cladding
- B. Flashing
- C. Elbow lining
  - D. Window board

The correct answer is option [B]

8. Which of the arrows points to the keyhole?

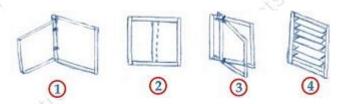


- A. "3"
- B. "4"
- C. "5"
- D. "6"

9. It is required that a go	ood window shall	<u></u>	
A. be weather proof			
B. control solar radiation	n and control hea	at	
C. control daylight (allow	w light but prever	nt glare)	
D. all of the above			
The correct answer is on	otion [D]		
10 window consi		of stripes of glass o	r blades fitted into
grooves cut in the stiles	of a solid frame.		
A. Casement			
B. Awning			

11. The diagram represents \_\_\_\_\_

The correct answer is option [D]



- A. types of framings
- B. types of mouldings
- C. types of

C. Pivoted

D. Louver

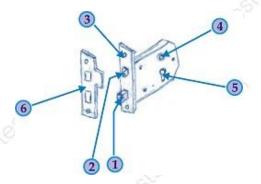
D. types of

The correct answer is option [C] Solution: Window frame, the throats helps break the water or moisture from reaching the under wall surface.

- 12. \_\_\_\_\_ furniture has lever handles and plates without latches.
- A. Latch
- B. Rim lock
- C. Lock
- D. All of the above

The correct answer is option [A]

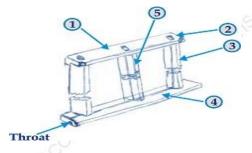
13. The arrow '3' points to the \_\_\_\_\_



- A. striker plate
- B. forend
- C. lock bolt
- D. latch bolt

The correct answer is option [B] Solution: Forend is the flat front plate covering of the latch edge.

14. What is the name of the arrow '2' in the diagram shown?

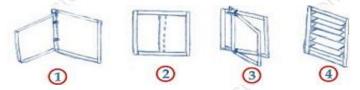


- A. Horn
- B. Sill

- C. Mullion
- D. Stile

The correct answer is option [A] Solution: Horn is the projected end of the head.

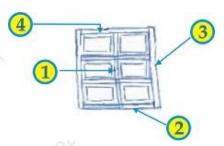
15. In the diagram, the part with the arrow '1' is called \_\_\_\_ window.



- A. louver
- B. sliding
- C. pivoted
- D. casement

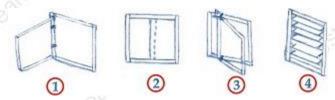
The correct answer is option [D]

16. The drawing represents window sash frame of \_\_\_\_\_ light sash.



- A. two
- B. three
- C. six
- D. seven

17. What type of window is in the drawing labelled '3'?



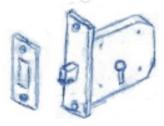
- A. Louver
- B. Casement
- C. Sliding
- D. Pivoted

The correct answer is option [D]

- 18. \_\_\_\_\_ divides the frame vertically in the drawing.
- A. Stile
- B. Mullion
- C. Sill
- D. Head

The correct answer is option [B]

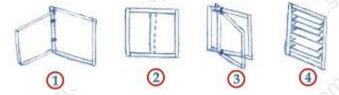
19. The drawing is a \_\_\_\_\_ lock.



- A. rebate dead
- B. mortise dead
- C. surface rim
- D. mortise live

The correct answer is option [B] Solution: Mortise dead lock, it is operated with a key.

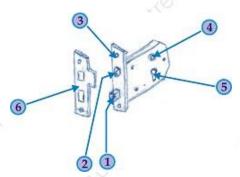
20. The drawing labelled '2' is called \_\_\_\_\_ window.



- A. louver
- B. casement
- C. sliding
- D. pivoted

The correct answer is option [C] Solution: Sliding window runs on the sill in between the sash frames.

21. The part labelled '4' in the drawing is called \_\_\_\_\_.



- A. hole for spindle
- B. key hole
- C. forend
- D. striker plate

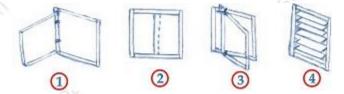
- 22. The main functions of a window include all except \_\_\_\_\_.
- A. to admit light to the rooms
- B. a safe means of access and egress to the rooms
- C. for ventilation
- D. to beautify and provide an external view

The correct answer is option [B] Solution: The functions of does not include providing a means of going in and out of the rooms.

- 23. \_\_\_\_ light describes a window or part of it which can be opened being hinge pivoted.
- A. Fixed
- B. Fan
- C. Opening
- D. Dark

The correct answer is option [C]

24. What type of window is in the drawing labelled '4'?



- A. Louver
- B. Sliding
- C. Pivoted
- D. Hinged

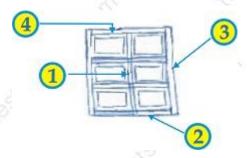
The correct answer is option [A] Solution: Louver window with stripes of glass horizontally attached.

25.	4	member	of the	window	frames	that	divides	the	window	horizonta	lly is	called
-----	---	--------	--------	--------	--------	------	---------	-----	--------	-----------	--------	--------

- A. muntin
- B. mullion
- C. transom
- D. stile

The correct answer is option [C]

26. What part is labelled '3' in the drawing?

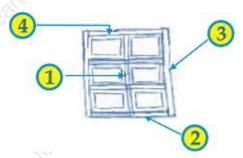


- A. Bottom rail
- B. Stile
- C. Sash bar
- D. Top rail

The correct answer is option [B] Solution: Stile the vertical members of the window sash frame.

- 27. \_\_\_\_\_ is an opening formed in a wall to admit light and ventilation to rooms.
- A. Door
- B. Window
- C. Verandah
- D. Passage

28. The part labelled '2' in the drawing is called \_\_\_\_\_\_\_.



- A. bottom rail
- B. stile
- C. sash bar
- D. top rail

The correct answer is option [A]

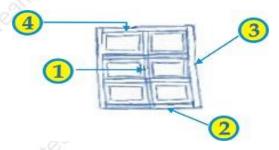
- 29. Hopper sashes of the awning or hopper window are hinged at the \_\_\_\_\_ and opens inward.
- A. bottom
- B. top
- C. side
- D. all of the above

The correct answer is option [A]

- 30. The two types of louver include \_\_\_\_\_.
- A. fixed and sliding
- B. fixed and pivoted
- C. fixed and adjustable
- D. adjustable and sliding

31. Casement have all except	
A. provide maximum ventilation	
B. difficult to make weather proo	f if on the side of the weather
C. fly screens are fitted inside wh	nen the sash opens outward
D. does not provide maximum ve	ntilation
The correct answer is option [D]	Solution: Casement opens completely.
32. For fire safety public building	should open
A. upwards	
B. downwards	
C. inwards	
D. outwards	
The correct answer is option [D]	
Sign	
33. The position of by are all exce	ept hung.
A. centre	
B. top	
C. side	
D. bottom	
The correct answer is option [A]	Solution: No hanging with is done at the center.
34. A latch set consists of	2011 72 CO. W. 2011
A. latch, lever handles and plates	
B. latch, and	
C. latch, and stays	
D. handles, bolts and	
The correct answer is option [A]	

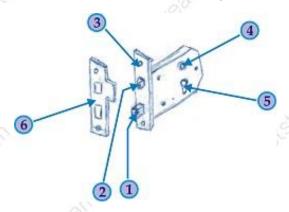
35. The part labelled '1' in the window sash frame is called \_\_\_\_\_.



- A. bottom rail
- B. stile
- C. sash bar
- D. top rail

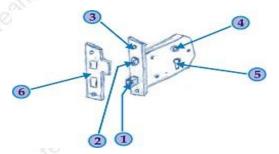
The correct answer is option [C]

36. What is the name of the part labelled '6'?



- A. Escutcheon
- B. Rammer face
- C. Stapple pin
- D. Striker plate

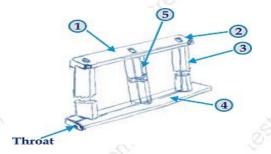
37. The drawing illustrates parts of a \_\_\_\_\_.



- A. mortise lock
- B. catch
- C. rim lock
- D. drawer lock

The correct answer is option [A]

38. The diagram represents \_\_\_\_\_



- A. wall rack
- B. door frames
- C. window frames
- D. picture frames

The correct answer is option [C] Solution: Window frame, the throats helps break the water or moisture from reaching the under wall surface.

- 39. Which of the following is not a functional requirement of a window?
- A. Acoustic purposes
- B. Security purposes

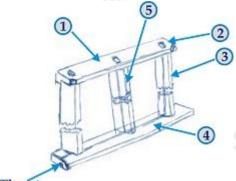
D. Thermal performance function	1 511	
The correct answer is option [C] danger or disaster.	Solution are not meant as escape root in co	ase of
40 is the internal sill fixe	ed to the window frame sill.	
A. Flashing		
B. Window board		
C. Elbow lining		
D. Cladding		
The correct answer is option [B]		
41. A lock set consists of		
A. lach, lever handles and plates		
B. lock, lever handles and plates		
C. knobs, and keys		
D. lever handles and plates		
The correct answer is option [B]		
42. The method of fixing glass int sashes is called glazing.	to shallow rebates in the window frame withou	ut using
A. indirect		
B. shallow		
C. fixed		
D. direct		
The correct answer is option [D]		

C. Escape root function

43. The shoulder size is me	easured from	all	
A. the outside edges of the	e top and bottom		
B. the innermost edges of	the frame		
C. between the bottoms of	f the rebates		
D. the inside edges of the	frame		
The correct answer is option	on [C]		
44. The two main types of f	rames are	_ frames.	
A. solid and box			
B. hollow and box			
C. box and square			
D. square and solid			
The correct answer is option	on [A]		
-51511			
45 Furniture consis	sts of lever handles	and plates without	locks.
A. Latch			
B. Metal			
C. Lock			
D. All of the above			
The correct answer is option handles and plates.	on [C] Solution: L	ock furniture is with	out only lever
46 is the timber us			veals a window frame
A. Flashing			
B. Window board			
C. Elbow lining			
D. Single lights			

## The correct answer is option [C]

47. The part with the arrow '5' is called \_\_\_\_\_.



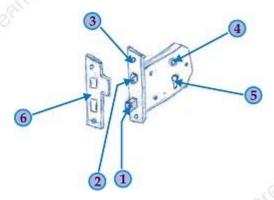
## Throat

- A. stile
- B. mullion
- C. sill
- D. transom

The correct answer is option [B]

- 48. \_\_\_\_\_ window is hinged at the sides to open inward or out ward.
- A. Casement
- B. Awning
- C. Pivoted
- D. None of the above

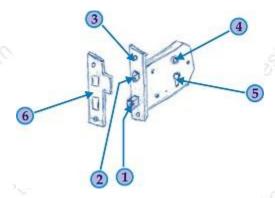
49. What is the name of the part labelled '2'?



- A. Striker plate
- B. Forend
- C. Lock bolt
- D. Latch bolt

The correct answer is option [D]

50. In the diagram, the part labelled '1' is called \_\_\_\_\_



- A. striker
- B. key hole
- C. lock bolt
- D. latch bolt

51. In the diagram, the part with the arrow '1' is called Throat A. horn B. sill C. mullion D. head The correct answer is option [D] 52. \_\_\_\_\_ lights are a form of casement window in which the sash is being hinged to a transform above a door or window so that it opens inwards to admit ventilation. A. Open B. Fan C. Fridge D. Bulb The correct answer is option [B] Solution: Fanlights is a small window above a bigger window. 53. \_\_\_\_\_ light describes a window or part of it in which glass is fixed so that no part of the glazing can be opened. A. Fixed B. Fan C. Opening

D. dark		
The correct answer is option	[A]	
54. The drawing is a type of d	loor called	
STOP A	THE STREET	
A. pivoted		
B. sliding		
C. hinged		
D. awning		
The correct answer is option	[B]	
55 window runs on the	he window cill from left to riç	ght hand side.
A. Casement		
B. Sliding		
C. Awning		
D. Pivoted		
The correct answer is option right hand side.	[B] Solution: Sliding runs	on bottom rail from left to
56. A window can be fixed by		
A. being hinged		
B. being pivoted		
C. sliding		
D. all of the above		
The correct answer is option	[D]	

57. Some and latches are not reversible an	nd so must be ordered as
A. top and bottom	
B. right and left hand	
C. top and right hand	
D. bottom and left hand	
The correct answer is option [B]	
58. The overall size of a sash is taken from	the edges of the frame.
A. outside	
B. inside	
C. in-between the outer	
D. all of the above	
The correct answer is option [A]	
59 window is attached to the sash sash opens outward from the bottom.	stiles and jambs or mullions so that each
A. Casement	
B. Sliding	
C. Awning	
D. Louver	
The correct answer is option [C] Solution stile and jambs and sash opens outward.	n: Awning window is attached to the sash