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Basic Technology Exam Questions and Answers Pack

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# QUESTIONS

## TOPIC: APPLIED ELECTRICITY AND ELECTRONICS

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

1. This diagram represents \_\_\_\_\_ arrangement of insulators.



- A. circular
- B. horizontal
- C. vertical
- D. triangular

2. These items are known as \_\_\_\_ insulators.



- A. suspended
- B. pin type
- C. copper type
- D. strain type

3. When the switch is closed, current will flow from the \_\_\_\_\_ to the \_\_\_\_\_ of a circuit.

- A. inductor, battery
- B. battery, capacitor

- C. inductor, capacitor
- D. capacitor, battery

4. Which of the following power stations uses burning charcoal as a source of electricity generation?

- A. Egbin power station
- B. Afam power station
- C. Kainji Dam
- D. Oji river power station

5. A loudspeaker converts information signals, in form of \_\_\_\_\_ back into sound.

- A. electric current
- B. magnetic waves
- C. aerial sounds
- D. radio waves

6. The \_\_\_\_ is used to control radio waves.

- A. loudspeaker
- B. microphone
- C. antenna
- D. satellite

7. A \_\_\_\_\_ set is a device that receives radio signals and changes them into sounds and pictures.

- A. television
- B. radio
- C. satellite
- D. computer

8. Appliances which receive electricity supply from a circuit breaker are called \_\_\_\_\_.

- A. load
- B. points
- C. consumers
- D. receivers

9. A \_\_\_\_\_ is a collection of equipment for the conversion, transmission and control of electric power.

- A. gas station
- B. filling station
- C. mini station
- D. sub-station

10. This item is called a \_\_\_\_\_ insulator.



- A. strain type
- B. suspension
- C. pin type
- D. congestion

11. Insulators for L.T distribution are arranged in a \_\_\_\_\_ formation.

- A. triangular
- B. vertical
- C. circular
- D. horizontal

12. Insulators for H.T distributions are arranged in a \_\_\_\_\_ formation.

- A. triangular
- B. circular
- C. horizontal
- D. vertical

13. The transformer is an equipment used in the conversion of \_\_\_\_\_ from one value to another.

- A. temperature
- B. pressure
- C. voltage
- D. frequency

14. Current is only able to flow to components of a circuit only when the switch is \_\_\_\_\_.

- A. tied
- B. opened
- C. full
- D. closed

15. The \_\_\_\_\_ wire is the most widely used AC system by the PHCN.

- A. single phase 2-
- B. three phase 4-
- C. three phase 3-
- D. single phase 3-

16. Fuses designed to fit on the line supports are called \_\_\_\_\_ fuses.

- A. T.H

- B. K.V
- C. L.T
- D. H.T

17. Which of the following is a safety device for H.T transmission systems?

- A. Earthed metal frame
- B. Earth leakage circuit breaker
- C. Line support and separators
- D. Generator control panel

18. Electricity is transferred through \_\_\_\_\_ to sub stations.

- A. transformers
- B. transmission lines
- C. electric poles
- D. electric coils

19. Which of the following uses burning gas as a source of electricity generation?

- A. Afam power station
- B. Kainji Dam
- C. Benue river power station
- D. Oji river power station

20. In electronics, AC is an acronym for \_\_\_\_\_ .

- A. Aerial Capacitor
- B. Acute Current
- C. Altering Cable
- D. Alternating Current



21. Transformers are rated in terms of \_\_\_\_\_ Ampere.

- A. Kilogram
- B. Kilovolt
- C. Kilometer
- D. Kilojoule

22. An electrical circuit is said to be \_\_\_\_\_ when one or more appliances are connected to the circuit to form a complete current flow path.

- A. loaded
- B. running
- C. magnetic
- D. empty

23. The \_\_\_\_\_ is a component of a circuit which stores up energy.

- A. inductor
- B. capacitor
- C. battery
- D. isolator

24. A circuit is said to be "offloaded" when the electrical load is removed by \_\_\_\_\_ .

- A. shutting down
- B. switching on
- C. switching off
- D. breaking out

25. A \_\_\_\_\_ is an element that generates the radio frequency waves.

- A. radio transmitter
- B. transmitting serial

- C. receiving serial
- D. radio receiver

26. Which of the following is a component of a transmission system?

- A. Meter phase
- B. Meter gauge
- C. Circuit breaker
- D. Generator

27. A small tranformer of 100KVA can be mounted on \_\_\_\_\_ pole.

- A. VK 'H'
- B. VA 'H'
- C. HV 'H'
- D. KV 'H'

28. The \_\_\_\_\_ is a hydropower that generates electricity at low frequency in Nigeria.

- A. Oji river power station
- B. Egbin power station
- C. kainji Dam
- D. Afam power station

29. In a satellite television, the dish at individual homes receives television programmes from the \_\_\_\_\_ orbiting the earth.

- A. stars
- B. satellite
- C. electrons
- D. rockets

30. The transmission of voltage from the grid substation is at \_\_\_\_\_ .

- A. 240KV and 132KV
- B. 23KV and 33KV
- C. 60KV and 30KV
- D. 66KV and 33KV

31. Transmission of electric power is at high voltage and \_\_\_\_\_ .

- A. high pressure
- B. low frequency
- C. low volume
- D. high frequency

32. The diagram is that of a \_\_\_\_\_ in space.



- A. windmill
- B. antenna
- C. satellite
- D. projector

33. These items are known as \_\_\_\_\_ insulators.



- A. suspension
- B. pin type
- C. strain type
- D. copper type

34. Insulators used in transmission lines are of the pin type, strain type and \_\_\_\_\_ .

- A. tension
- B. suspension
- C. discharge
- D. strand

35. The supply of electricity to various consumers is known as \_\_\_\_\_ .

- A. transmission
- B. transporting
- C. distribution
- D. transferring

36. Voltages are lowered at the consumers end of transmission system with a \_\_\_\_\_ transformer.

- A. step down
- B. step up

- C. stabilizing
- D. scale

37. A radio \_\_\_\_\_ selects and amplifies transmitter signals and extracts information out of the radio waves.

- A. serial
- B. wave
- C. transmitter
- D. receiver

38. Which of the following is necessary for "shut down" and maintenance of the transmission system?

- A. Meter phase
- B. Circuit breaker
- C. Transformer
- D. Voltage breaker

39. For proper radiation and reception of electromagnetic waves, the aerial to be used must have the right \_\_\_\_\_ .

- A. weight
- B. shape
- C. size
- D. hue

40. Large sizes of \_\_\_\_\_ produce larger radiation of electromagnetic waves.

- A. feeder pillar
- B. supporting poles
- C. transmitting lines
- D. aerial conductors

41. This diagram is known as a \_\_\_\_\_ dish.



- A. satellite
- B. radiation
- C. transmission
- D. reception

42. \_\_\_\_\_ is a type of insulator used in an overhead line system.

- A. Porcelain
- B. Ceramic
- C. Latex
- D. Pyruvic

43. A \_\_\_\_ is used for making and breaking the normal current in an electric system.

- A. circuit breaker
- B. transformer
- C. voltage regulator
- D. grid transplant

44. Electrons always radiate energy in the form of \_\_\_\_\_ waves.

- A. mechanical
- B. electromagnetic
- C. earthed
- D. thermostatic

45. A transmitting serial sends out radio waves into \_\_\_\_.

- A. the air
- B. vacuum
- C. space
- D. the room

46. The conductor of insulated cables is composed of high conductivity \_\_\_\_ wire.

- A. zinc
- B. ceramic
- C. steel
- D. copper

47. Current passed on to the components of a circuit remain without any drop only when the switch is \_\_\_\_.

- A. moved
- B. sealed
- C. opened
- D. broken

48. The destination of an electrical power transmission is called \_\_\_\_ .

- A. receiving end
- B. solution point
- C. distribution point
- D. converging end

## TOPIC: BUILDING

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

1. What is the name of this handtool?



- A. Chain saw
- B. Matchet
- C. spade
- D. Axe

2. The \_\_\_\_ is used in setting out a building when greater accuracy is needed.

- A. telescope
- B. satellite
- C. grader
- D. theodolite

3. What is the name of this mechanical equipment?



- A. Inserted orbital chain
- B. Inverted mechanical saw



- C. Tractor shovel
- D. Reciprocating chain saw

4. The equipment used for lifting and loading large quantities of loose materials into trucks is called \_\_\_\_ .

- A. bulldozer
- B. tipper
- C. tractor shovel
- D. truck

5. Which of the following are tools for Setting out?

- A. Shovels and spade
- B. Pegs and tape
- C. Graders and loaders
- D. Rods and glue

6. \_\_\_\_\_ is applied on a cleared site in order to prevent weed growth.

- A. Herbicide
- B. Pesticide
- C. Insecticide
- D. Fungicide

7. A \_\_\_\_\_ line is a line which shows where the front wall of the house should begin.

- A. foot
- B. building
- C. square
- D. concrete

8. Which of these handtools is used for cutting bigger branches?



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

9. \_\_\_\_\_ is NOT a professional involved in building construction.

- A. An architect
- B. A real estate agent
- C. A quantity surveyor
- D. A structural engineer

10. What is the name of this mechanical equipment?



- A. Bulldozer
- B. Truck
- C. Grader
- D. Tractor shovel

11. Which of the following is NOT an activity involved in site preparation?

- A. Levelling of the ground.
- B. Digging out roots and stumps.
- C. Killing of termites and their nests.
- D. Planning of building materials to be used.

12. What is the name of this handtool?



- A. Matchet
- B. Chain saw
- C. Spade
- D. Sickle

13. What is the name of this equipment?



- A. Wooden square
- B. Steel square
- C. T-square
- D. Set square

14. What is the name of this equipment?



- A. Camera
- B. Telescope
- C. Theodolite
- D. Microscope

15. The \_\_\_\_\_ plan shows the drainage and sewage network of a building structure.

- A. plumbing
- B. electrical
- C. floor
- D. underground

16. The \_\_\_\_\_ of a building structure shows how it would look when cut through from the roof to the foundation.

- A. elevation
- B. sections
- C. foundation
- D. schedules

17. The pay loader is an example of \_\_\_\_\_ used in site preparation.

- A. handtool
- B. automated machine
- C. computerized tool
- D. mechanical plant

18. A dumpy level is a surveyor's instrument used in establishing the levelness of \_\_\_\_\_ .

- A. ground surface
- B. water level
- C. underground fittings
- D. aerial lines

19. What is the name of this handtool?



- A. Spade
- B. Shovel
- C. Sickle
- D. Rake

20. Setting out is done with the aid of pegs, lines and \_\_\_\_\_ .



- A. tape
- B. fork
- C. hose
- D. chalk

21. Which of these handtools is used for cutting grasses and shrubs?

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

22. In planning a building construction, the first professional to consult is the \_\_\_\_\_.

- A. estate manager
- B. quantity surveyor
- C. architect
- D. construction company

23. The \_\_\_\_\_ of a building structure shows its view from the four cardinal points.

- A. sections
- B. schedules
- C. elevation
- D. foundation

24. What is the name of this mechanical equipment?



- A. Bulldozer
- B. Tipper
- C. Loader
- D. Trailer

25. The process of establishing on the ground, the foundation plan of any building is called \_\_\_\_.

- A. setting out
- B. accuracy control
- C. floor plan
- D. foundation plan

26. What is the use of a spade in site preparation?

- A. Cutting logs of wood
- B. Shaping of blocks
- C. Digging loose earth
- D. Breaking solid rocks

27. Herbicides are chemicals that are able to stop the growth of \_\_\_\_ when applied on a site.

- A. flowers
- B. shrubs
- C. weeds
- D. trees

28. What is the name of this handtool?



- A. Axe
- B. Matchet
- C. chain saw
- D. Spade

29. The \_\_\_\_ is used for felling trees.

- A. chain saw
- B. matchet
- C. hammer
- D. hoe

30. Buildings can be rendered free from termites by using \_\_\_\_\_ .

- A. dieldrin dust
- B. round-up
- C. barricade
- D. fursam 99

31. \_\_\_\_\_ are used to make sure of correct setting out of walls and foundation footings.

- A. Tapes
- B. Poles
- C. Profiles
- D. Stakes

32. The square ends of a building are Set out using the ratio \_\_\_\_\_, based on the \_\_\_\_ theorem.

- A. 3:2:5, carnot's
- B. 2:3:4, adiabatic



- C. 3:4:5, pythagoras
- D. 4:5:6, basu's

33. \_\_\_\_\_ is used for lifting and throwing loose materials into another position.

- A. Spade
- B. Axe
- C. Matchet
- D. Shovel

34. The \_\_\_\_\_ plan of a building structure gives a layout of the electrical fittings and wiring of building.

- A. plumbing
- B. decoration
- C. setting
- D. electrical

35. What is the use of this tool in building construction?



- A. Levelling out
- B. Electrical fitting
- C. Setting out
- D. Blazing off

36. The \_\_\_\_\_ plan shows the layout, dimension and location of building parts.

- A. foundation
- B. floor
- C. plumbing
- D. electrical

37. One of the methods employed in "setting out" is the use of \_\_\_\_\_ .

- A. profile boards
- B. metal chips
- C. screw gauge
- D. steel square

38. The \_\_\_\_\_ is used to create a flat surface during site preparation.

- A. trailer
- B. loader
- C. shovel
- D. grader

39. Which of these handtools is used for felling trees?



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

40. The bulldozer is used to dig the topsoil to a depth between \_\_\_\_\_ .

- A. 100-200mm
- B. 150-300mm
- C. 300-700mm
- D. 50-150mm

41. Which of these handtools is used for digging about the surface of the ground?



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

42. The \_\_\_\_\_ is used for pulling down buildings and heavy trees.

- A. trailer
- B. bulldozer
- C. tractor
- D. pay loader

43. What is the name of this mechanical equipment?



- A. Bulldozer
- B. Pay loader
- C. Tipper
- D. Truck

44. What is the name of this handtool?



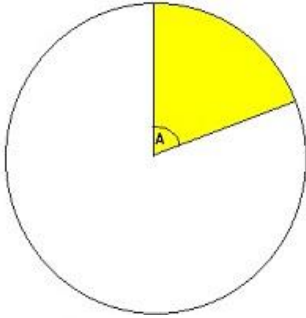
- A. Spade
- B. Shovel
- C. Sickle
- D. Rake

## TOPIC: DRAWING PRACTICE

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

1. What is the difference between a point and a line?
  - A. A point has position and length while a line has only position.
  - B. A line has thickness while a point has length.
  - C. A line has position and thickness while a point has only length.
  - D. A line has position and length while a point has only position.
  
2. What is the first step to take in constructing a rhombus given its side and a diagonal?
  - A. Draw a line and mark off AB equal to the given diagonal.
  - B. Draw a square and construct a diagonal.
  - C. Draw a line and mark off AB longer than the given diagonal.
  - D. Draw a rectangle and mark out a diagonal shorter than the given diagonal.
  
3. In technical drawing, vertical lines are drawn with a set square placed on the \_\_\_\_\_.
  - A. drawing board
  - B. T-square
  - C. set square
  - D. metric rule

4. The shaded part of the circle represents a \_\_\_\_\_.



- A. segment
- B. quadrant
- C. chord
- D. sector

5. A quadrilateral has \_\_\_\_ angles.

- A. 2
- B. 3
- C. 4
- D. 5

6. What is the first step to take in constructing a rhomboid given a diagonal and two sides?

- A. Draw a line and mark off AB longer than the given diagonal.
- B. Draw AB equal to the given diagonal.
- C. Join AD, DB, BC, and CA to obtain the required rhomboid ADBC.
- D. Bisect AB at C and draw a circle with AB as diameter.

7. What is a complementary angle?

- A. When the sum of two angles is equal to  $180^\circ$ .
- B. When the difference between two angles is equal to  $90^\circ$ .
- C. When the sum of two angles is equal to  $90^\circ$ .
- D. When the difference between two angles is equal to  $180^\circ$ .

8. The point at which the vertical angle is formed is termed \_\_\_\_\_ .

- A. the nape of the triangle
- B. the apex of the triangle
- C. the vertex of the triangle
- D. the peak of the triangle

9. A heptagon is a polygon with \_\_\_\_\_ sides.

- A. 7
- B. 6
- C. 5
- D. 4

10. A right angled triangle is one which has at least \_\_\_\_\_ of its angles at right angle.

- A. two
- B. one
- C. none
- D. all

11. \_\_\_\_\_ is a straight line drawn through the centre, meeting the circumference at both ends.

- A. Radius
- B. Diameter
- C. Segment
- D. Arc

12. The first step to take in constructing an angle of  $22\frac{1}{2}^{\circ}$  is to \_\_\_\_\_ .

- A. construct angle  $60^{\circ}$

- B. construct angle  $90^\circ$
- C. construct angle  $180^\circ$
- D. construct angle  $45^\circ$

13. \_\_\_\_\_ are used at the end of dimension lines.

- A. Pointing finger
- B. Spearheads
- C. Arrowheads
- D. Crossheads

14. A point can be made on paper by use of \_\_\_\_\_ .

- A. sharp pencil or needle
- B. blunt pencil or knife
- C. sharp pencil or thick marker
- D. blunt pencil or needle

15. Something which joins two points is called a \_\_\_\_\_ .

- A. point
- B. line
- C. stroke
- D. mark

16. In technical drawing, all horizontal lines are drawn with the aid of a \_\_\_\_\_ .

- A. metric rule
- B. set square
- C. T-square
- D. protractor



17. \_\_\_\_\_ is the line drawn from the centre of a circle to the tangent points forming an angle of  $90^\circ$ .

- A. Arc
- B. Chord
- C. Diameter
- D. Normal

18. The two angles at the ends of the base are called \_\_\_\_\_.

- A. front angles
- B. side angles
- C. top angles
- D. base angles

19. An angle of  $180^\circ$  is called \_\_\_\_\_.

- A. a straight line
- B. an obtuse angle
- C. an acute angle
- D. a reflex angle

20. Which of the following is NOT a type of angle?

- A. Obtuse angle
- B. Reflex angle
- C. Right angle
- D. Spatial angle

21. \_\_\_\_\_ are used to show dimension lines, projection lines and construction lines.

- A. Thin discontinuous lines
- B. Thick continuous lines

- C. Thick long chains
- D. Thin continuous lines

22. In a quadrilateral, any two opposite angular points may be joined by a straight line termed \_\_\_\_\_.

- A. the tangent
- B. the chord
- C. the radius
- D. the diagonal

23. Two lines are said to be parallel if they are \_\_\_\_\_.

- A. same distance and can meet at regular intervals
- B. distances apart and can still meet
- C. same length and can meet at a point
- D. always the same distance apart and cannot meet

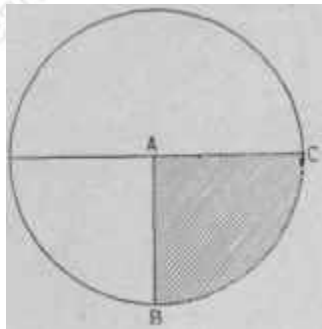
24. A \_\_\_\_\_ angle is greater than  $180^\circ$  but less than  $360^\circ$ .

- A. acute
- B. reflex
- C. right
- D. obtuse

25. A triangle has \_\_\_\_\_ sides.

- A. 5
- B. 2
- C. 3
- D. 7

26. The shaded portion in the circle represents a \_\_\_\_\_.



- A. segment
- B. sector
- C. quadrant
- D. chord

27. A \_\_\_\_\_ angle is one which is greater than  $90^\circ$  but less than  $180^\circ$ .

- A. right
- B. reflex
- C. obtuse
- D. acute

28. A \_\_\_\_\_ is part of a circle bounded by an arc and a chord.

- A. segment
- B. sector
- C. tangent
- D. diameter

29. An angle of  $150^\circ$  is a \_\_\_\_\_ angle.

- A. obtuse
- B. reflex
- C. straight
- D. acute

30. A right angle is angle at \_\_\_\_\_.

- A.  $90^\circ$
- B.  $45^\circ$
- C.  $180^\circ$
- D.  $360^\circ$

31. What is an angle?

- A. Two straight lines that can never meet.
- B. The extension of two parallel straight lines .
- C. The inclination to each other of two straight lines.
- D. When the sum of two parallel straight lines is equal to 90

32. An obtuse angle is greater than \_\_\_\_\_ but less than \_\_\_\_\_.

- A.  $45^\circ$ ,  $90^\circ$
- B.  $90^\circ$ ,  $180^\circ$
- C.  $180^\circ$ ,  $360^\circ$
- D.  $180^\circ$ ,  $270^\circ$

33. Units of measurement of an area include \_\_\_\_\_.

- (i) millimetre
- (ii) centimetre
- (iii) percentage
- (iv) metre
- (v) Ohms

- A. (i), (ii) and (iv)
- B. (i), (ii) and (v)
- C. (ii), (iii) and (iv)
- D. (iii), (iv) and (v)

34. A polygon with eight sides is called \_\_\_\_\_.

- A. a heptagon
- B. an octagon
- C. a nonagon
- D. a hexagon

35. When two straight lines meet at a point, \_\_\_\_\_ is formed.

- A. a shape
- B. a box
- C. an angle
- D. a platform

36. What is a triangle?

- A. A plane figure contained by three straight lines.
- B. An irregular figure of multiple lines.
- C. A plane figure containing four thick lines.
- D. A plain figure containing three curved lines.

37. \_\_\_\_\_ is the unit of measurement of angles.

- A. Ohm
- B. Centigrade
- C. Radian
- D. Degree

38. The side of the triangle opposite the right angle is called \_\_\_\_\_ .

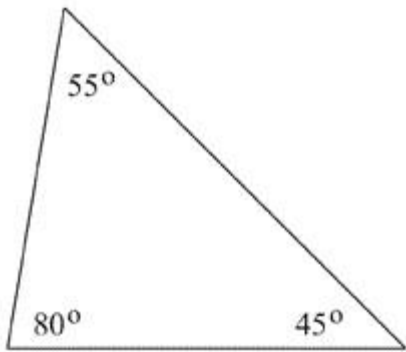
- A. opposite
- B. tangent

- C. hypotenuse
- D. base

39. Which of the following best defines an Area?

- A. The amount of angle covered within the boundary of a figure.
- B. The amount of space enclosed within the boundary of a figure.
- C. The quality of space outside the marked regions of a figure.
- D. The amount of space enclosed outside the boundary of a figure.

40. The triangle is a \_\_\_\_\_ triangle.



- A. equilateral
- B. isosceles
- C. scalene
- D. right angle

41. An angle of  $130^\circ$  is \_\_\_\_\_.

- A. a reflex angle
- B. a right angle
- C. a straight angle
- D. an obtuse angle

42. The angle opposite the base is called \_\_\_\_\_ angle.

- A. vertex
- B. vertical
- C. vertibral
- D. vintex

43. What is a supplementary angle?

- A. When the sum of two angles is equal to  $90^\circ$ .
- B. When the difference between two angles is equal to  $180^\circ$ .
- C. When the difference between two angles is equal to  $90^\circ$ .
- D. When the sum of two angles is equal to  $180^\circ$ .

44. The sum of three angles of any triangle is \_\_\_\_\_.

- A.  $180^\circ$
- B.  $90^\circ$
- C.  $360^\circ$
- D.  $270^\circ$

45. A parallelogram may be all except \_\_\_\_\_.

- A. triangle
- B. rectangle
- C. rhomboid
- D. square

46. A \_\_\_\_\_ is a polygon with five sides.

- A. hexagon
- B. heptagon

- C. pentagon
- D. parallelogram

47. Thick continuous lines are used to show \_\_\_\_\_.

- A. short break lines
- B. visible outlines and edges
- C. ending dimension lines
- D. long break lines

48. A \_\_\_\_\_ is part of a circle bounded by two radius and an arc.

- A. segment
- B. sector
- C. tangent
- D. diameter

49. A straight line is defined as \_\_\_\_\_ .

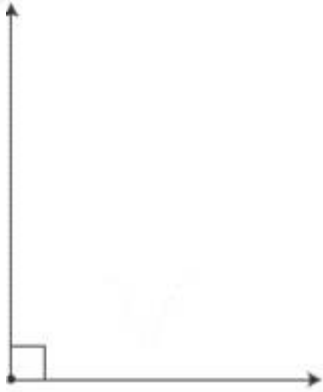
- A. the longest distance between two points
- B. the shortest distance between two points
- C. the shortest distance between angles
- D. the longest distance between two lines

50. A \_\_\_\_\_ angle is one which is less than  $90^\circ$ .

- A. right
- B. acute
- C. reflex
- D. obtuse



51. The diagram represents a/an \_\_\_\_\_ angle.



- A. acute
- B. right
- C. reflex
- D. obtuse

52. The angle below is known as angle \_\_\_\_\_.

- A.  $300^\circ$
- B.  $180^\circ$
- C.  $360^\circ$
- D.  $270^\circ$

53. Theorems used in constructing figures of equal area does NOT include \_\_\_\_\_.

- A. triangles on the same base and between the same parallels are equal in area
- B. parallelograms on different base and between same parallels are equal in width
- C. triangles on equal bases and between the same parallels are equal in area
- D. parallelograms on the same base and between the same parallels are equal

54. A \_\_\_\_\_ is formed when two straight lines meet at a point.

- A. line

- B. angle
- C. curve
- D. circle

55. Which of the following is NOT a point to be considered when drawing a horizontal line with the T-square?

- A. The T-square should never be used to draw a line in any other position.
- B. The head of the T-square must slide firmly on the left hand side edge of the drawing board.
- C. The T-square must be used in drawing all horizontal lines.
- D. The T-square can be used in making angles of  $30^\circ$ ,  $60^\circ$  and  $90^\circ$

56. An angle of  $360^\circ$  is known as a \_\_\_\_\_ .

- A. rotation
- B. revolution
- C. resolution
- D. reflection

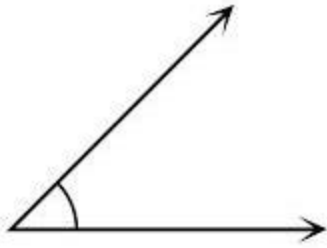
57. The altitude or height of a triangle is the \_\_\_\_\_ .

- A. paralleled distance from the base to two sides of the triangle
- B. perpendicular distance from the base to two sides of the triangle
- C. perpendicular height from the base to three sides of the triangle
- D. perpendicular distance from the vertex to the base of the triangle

58. A polygon with ten sides is called \_\_\_\_\_ .

- A. a heptagon
- B. an octagon
- C. a nonagon
- D. a decagon

59. The diagram below represents a/an \_\_\_\_\_ angle.



- A. acute
- B. right
- C. reflex
- D. obtuse

60. We use \_\_\_\_\_ for measuring angles.

- A. protractor
- B. compass
- C. T-square
- D. divider

61. Thick continuous wavy or irregular lines are indicative of \_\_\_\_\_.

- A. short break lines and boundary lines
- B. ending dimension lines
- C. long break lines
- D. short chain lines

62. A parallelogram with all sides equal with each angle at right angle is called a \_\_\_\_\_.

- A. rhomboid
- B. right angle
- C. square
- D. rectangle

63. The \_\_\_\_\_angled triangle is one which has each of its three angles less than a right angle.

- A. right
- B. obtuse
- C. reflex
- D. acute

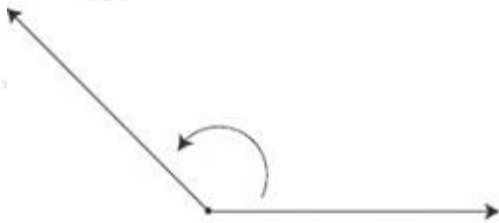
64. A triangle in which only two sides are equal in length is called \_\_\_\_\_ .

- A. equilateral triangle
- B. isosceles triangle
- C. scalene triangle
- D. base triangle

65. \_\_\_\_\_ is a plane figure bounded by four straight sides.

- A. A quadrilateral
- B. A triangle
- C. A circle
- D. A cuboid

66. This angle is called a/an\_\_\_\_\_ angle.



- A. acute
- B. right
- C. reflex
- D. obtuse

67. A triangle with all three sides unequal is called \_\_\_\_ .

- A. equilateral triangle
- B. isosceles triangle
- C. scalene triangle
- D. base triangle

68. A \_\_\_\_\_ is any straight line drawn across the circle, meeting the circumference at both ends.

- A. diameter
- B. radius
- C. arc
- D. chord

69. One side of the triangle usually identified as the most nearly horizontal is known as the \_\_\_\_\_ .

- A. back
- B. base
- C. top
- D. side

70. \_\_\_\_\_ angled triangle is one which has one of its angles greater than a right angle.

- A. An obtuse
- B. A right
- C. An acute
- D. A reflex

71. A normal usually forms an angle of \_\_\_\_ with the tangent.

- A.  $90^\circ$

- B.  $180^\circ$
- C.  $45^\circ$
- D.  $270^\circ$

72. A parallelogram which has its opposite sides equal and each angle at right angle is called \_\_\_\_\_ .

- A. a square
- B. a rectangle
- C. a rhomboid
- D. a cube

73. A reflex angle is greater than \_\_\_\_\_ but less than \_\_\_\_\_ .

- A.  $180^\circ$ ,  $270^\circ$
- B.  $90^\circ$ ,  $180^\circ$
- C.  $180^\circ$ ,  $360^\circ$
- D.  $45^\circ$ ,  $90^\circ$

74. \_\_\_\_\_ is a straight line touching the circumference at one point only and is perpendicular to the circumference of the circle.

- A. Diameter
- B. Sector
- C. Tangent
- D. Radius

75. The three angles of an equilateral triangle are all equal with each being \_\_\_\_\_ .

- A.  $45^\circ$
- B.  $90^\circ$
- C.  $180^\circ$
- D.  $60^\circ$

76. An angle of  $270^\circ$  is a \_\_\_\_\_ angle.

- A. right
- B. reflex
- C. obtuse
- D. acute

77. A \_\_\_\_\_ is a parallelogram formed from a square so that no angle is a right angle.

- A. rectangle
- B. rhomboid
- C. square
- D. rhombus

78. Given angles are bisected by the construction of \_\_\_\_\_ .

- A. circles
- B. arcs
- C. radius
- D. tangents

79. This diagram is called \_\_\_\_\_ .



- A. a straight angle
- B. a right angle
- C. an acute angle
- D. a reflex angle

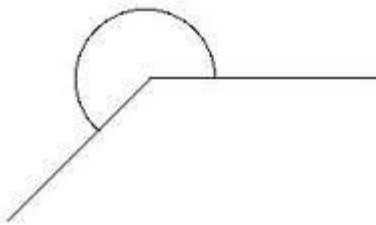
80. A \_\_\_\_\_ is a straight line drawn from the centre to the circumference of the circle.

- A. diameter
- B. segment
- C. radius
- D. chord

81. An area is measured in \_\_\_\_\_ .

- A. degrees
- B. percentage
- C. radian
- D. square units

82. The diagram represents a/an \_\_\_\_\_ angle.



- A. acute
- B. right
- C. reflex
- D. obtuse

83. \_\_\_\_\_ is defined as the shortest distance between two points.

- A. A straight line
- B. A curved line
- C. An angle
- D. A parallel line



84. What is the first step to take in constructing a triangle given the length of the three sides?

- A. Draw a horizontal line and mark off the base of the triangle AB.
- B. Draw a vertical line and mark off the vertex of the triangle.
- C. Draw a horizontal line and mark off the vertex of the triangle ABC.
- D. Draw a vertical line and mark off angle  $90^\circ$ .

85. The first thing to do when bisecting a given line is \_\_\_\_ .

- A. draw the given line AB
- B. draw arcs above and below the given line
- C. intersect the given line
- D. duplicate the given line

86. A \_\_\_\_ is a parallelogram formed from a rectangle so that no angle is a right angle.

- A. rhomboid
- B. rhombus
- C. rectangle
- D. square

87. In technical drawing, a point is usually represented by \_\_\_\_ .

- A. a cross or bow
- B. a line or arrow
- C. a cross or dot
- D. an arrow or finger

88. A circle is a plane figure bounded by a curved line called a \_\_\_\_ .

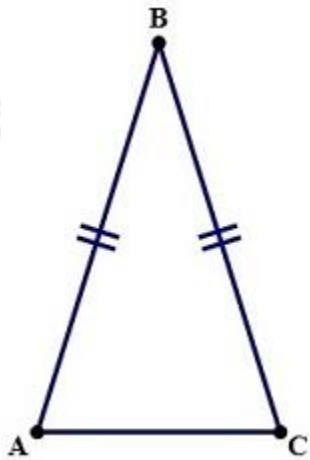
- A. semi-circle
- B. circumference

- C. arch
- D. sector

89. A quadrilateral with opposite sides, equal and parallel is called \_\_\_\_\_.

- A. a bilateral
- B. a parallelogram
- C. a rectangle
- D. a rhombus

90. The triangle below is a \_\_\_\_ triangle.

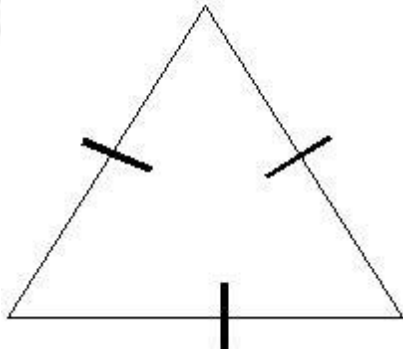


- A. equilateral
- B. right angle
- C. scalene
- D. isosceles

91. Another name for an area is \_\_\_\_\_.

- A. volume
- B. space
- C. grid
- D. square

92. The triangle is a/an \_\_\_\_\_ triangle.

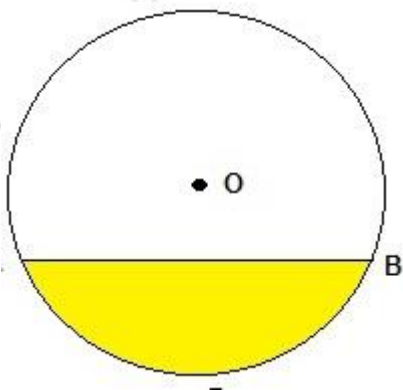


- A. scalene
- B. equilateral
- C. isosceles
- D. right angle

93. Parts of a circle does NOT include \_\_\_\_\_ .

- A. hypotenuse
- B. chord
- C. radius
- D. diameter

94. The shaded part of the circle represents a \_\_\_\_\_ .



- A. segment
- B. quadrant

- C. chord
- D. sector

95. A polygon with nine sides is called \_\_\_\_\_ .

- A. a heptagon
- B. an octagon
- C. a nonagon
- D. a decagon

96. A hexagon is a polygon with \_\_\_\_\_ sides.

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

97. A triangle in which all three sides are equal in length is called \_\_\_\_\_ .

- A. equilateral triangle
- B. scalene triangle
- C. isosceles triangle
- D. base triangle

98. A \_\_\_\_\_ is something which has position and an extremely small magnitude that is barely visible.

- A. point
- B. line
- C. stroke
- D. symbol

## TOPIC: ENERGY AND POWER

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

1. A \_\_\_\_\_ controls the extent to which the stainless steel plates are heated.
  - A. bimetallic thermostat
  - B. mica plate
  - C. nichrome element
  - D. asbestos pad
  
2. The refrigerant is a fluid which can easily \_\_\_\_\_.
  - A. appear and disappear
  - B. contract and dilate
  - C. evaporate and condense
  - D. sublimate and solidify
  
3. Charcoal is an incompletely burnt wood which is very high in \_\_\_\_\_ content.
  - A. carbon
  - B. sulphur
  - C. hydrogen
  - D. nitrogen
  
4. Which of the following is part of an electric iron?
  - A. Compressor
  - B. Synthetic thermoplast
  - C. Bimetallic thermostat
  - D. Transparent shield

5. Burning is a combustion process in which \_\_\_\_\_ is converted to heat energy.

- A. light
- B. solar
- C. mechanical
- D. chemical

6. The \_\_\_\_\_ conducts heat from the nichrome element to the lower steel plate during ironing.

- A. asbestos pad
- B. nichrome element
- C. mica plate
- D. steel plate

7. The charcoal pressing iron works by the release of \_\_\_\_\_ energy which is used for pressing clothes.

- A. electrical
- B. heat
- C. light
- D. mechanical

8. The section in which the refrigerant changes from the gaseous to the liquid state is called the \_\_\_\_\_.

- A. condenser
- B. distillator
- C. evaporator
- D. compressor

9. An electric kettle converts \_\_\_\_\_.

- A. electric energy to heat energy

- B. electric energy to chemical energy
- C. solar energy to electric energy
- D. chemical energy to electrical energy

10. What is the name of this item?



- A. Electric rod
- B. Water heater
- C. Electric ring
- D. Electric kettle

11. The direction of heat flow is always from \_\_\_\_\_ to \_\_\_\_\_ substances.

- A. colder, warmer
- B. warmer, hotter
- C. hotter, colder
- D. gaseous, liquid

12. Kerosene flows from the kerosene cooker through the \_\_\_\_\_ .

- A. rope
- B. wick
- C. pipe
- D. hose

13. This type of water heater is called the \_\_\_\_ type.



- A. free outlet
- B. cistern
- C. pressure
- D. furnace

14. This item is called \_\_\_\_ .



- A. charcoal pressing iron
- B. electric iron
- C. automatic iron
- D. automated iron

15. Which of the following is a common refrigerant?

- A. Chlorine
- B. Ammonia
- C. Carbon monoxide
- D. Fluorine



16. Which of the following is a common refrigerant?

- A. Sulphur
- B. Ammonia
- C. Camphor
- D. Urea

17. During combustion process, \_\_\_\_ is released.

- A. heat
- B. light
- C. gas
- D. moisture

18. Which of the following is NOT a function of the compressor?

- A. Raising the pressure of the refrigerant gas.
- B. Circulating the refrigerant.
- C. Creating a balance between the evaporator and condenser
- D. Maintaining temperature of cooled space

19. \_\_\_\_\_ is an essential part of a refrigeration system.

- A. Distillator
- B. Evaporator
- C. Sublimate
- D. Assimilator

20. Parts of the kerosene cooker are the stand, the glass container and the \_\_\_\_\_ .

- A. pierced handle
- B. airtight cylinders

- C. perforated cylinders
- D. punctured base

21. This type of water heater is called the \_\_\_\_ type.



- A. freoulet
- B. pressure
- C. cistern
- D. furnace

22. What is the function of the controls in a refrigeration system?

- A. Maintaining a proper rate of cooling.
- B. Raising the pressure of the refrigerant gas.
- C. Circulating the refrigerant.
- D. Maintaining the temperature of the coiling unit.

23. A \_\_\_\_\_ is any machine which uses an electric motor as its prime mover to produce granulated substances.

- A. tractor
- B. mixer
- C. cooker
- D. grinder

24. What insulates the steel plates from electricity during ironing?

- A. Nichrome element
- B. Mica plate
- C. Metallic strip
- D. Bimetallic thermostat

25. The refrigerant changes into \_\_\_\_ state when it condenses.

- A. solid
- B. crystalline
- C. gaseous
- D. liquid

26. In the process of burning, oxygen from the air combines with hydrocarbons to form \_\_\_\_\_ and \_\_\_\_\_ .

- A. carbon (ii) oxide, heat
- B. oxygen , nitrogen
- C. carbon (iv) oxide, steam
- D. sodium chloride, water

27. Fluids used as refrigerant should be \_\_\_\_\_ .

- A. thick
- B. contaminated
- C. non toxic
- D. pure

28. The gas lamp converts \_\_\_\_\_ energy into heat energy

- A. solar
- B. mechanical

- C. chemical
- D. electrical

29. Which of the following is an induction motor of the squirrel-cage rotor type?

- A. Electric fan
- B. Electric rotor
- C. Electric mower
- D. Gas cooker

30. The part labelled C is called \_\_\_\_ .

- A. gas cylinder
- B. gas chamber
- C. gas container
- D. lamp stand

31. Wood and charcoal are known as \_\_\_\_ fuels.

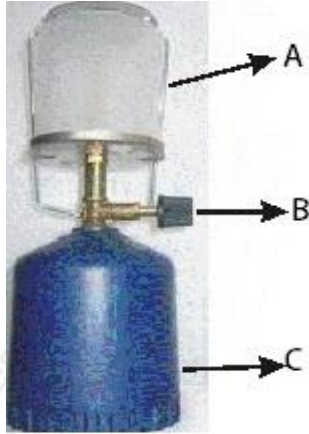
- A. gaseous
- B. solid
- C. liquid
- D. crystalline

32. What is the name of this equipment?



- A. Charcoal smoothening iron
- B. Wooden iron
- C. Charcoal pressing iron
- D. Electric iron

33. The part labelled A is called \_\_\_\_\_ .



- A. gas holder
- B. lamp cover
- C. transparent shield
- D. lamp shade

34. \_\_\_\_\_ is a liquefied gas.

- A. Kerosene
- B. Butane
- C. Methane
- D. Camphor

35. The blade of a fan is tightly fitted with a screw to prevent it from falling during \_\_\_\_\_ .

- A. action
- B. standing

- C. motion
- D. waving

36. The heat gained by the refrigerant changes it into \_\_\_\_\_.

- A. crystal
- B. air
- C. vapour
- D. liquid

37. Types of water heater are the free outlet, pressure type and \_\_\_\_\_ .

- A. valve type
- B. chimney type
- C. cistern type
- D. gas type

38. During ironing, clothes are smoothened by the combined efforts of \_\_\_\_\_ and \_\_\_\_\_ .

- A. metal strip, nichrome element
- B. bimetallic thermostart, element
- C. metallic thermoplast, element
- D. stainless steel plate, element

39. On gaining heat, the refrigerant \_\_\_\_\_ inside the coil.

- A. diffuses
- B. evaporates
- C. condenses
- D. spreads

40. Solid fuels are made up of compounds of carbon, nitrogen and \_\_\_\_\_ .

- A. hydrogen
- B. oxygen
- C. flourine
- D. sulphur

41. A change of state from the \_\_\_\_\_ is done in the condenser section.

- A. gas to liquid
- B. liquid to gas
- C. liquid to solid
- D. gas to solid

42. The refrigeration system consist of the condenser, evaporator and \_\_\_\_\_ .

- A. compressant
- B. steel plates
- C. compressor
- D. coils

43. The refrigerant enters the space to be refrigerated as a low temperature \_\_\_\_\_ .

- A. liquid
- B. vapour
- C. steam
- D. crystal

44. What is the name of this item?



- A. Electric keg
- B. Electric kettle
- C. Pressure kettle
- D. Automated kettle

45. What is the name of this item?



- A. Electric kettle
- B. Pressure cooker
- C. Electric cooker
- D. Gas cooker

46. Cold water is heated by \_\_\_\_\_ .

- A. conduction
- B. insulation
- C. contraction
- D. convention



47. The refrigerator is made up of the cabinet, the refrigeration system and the \_\_\_\_\_ .

- A. wiring system
- B. electric circuit
- C. mechanical system
- D. coiling circuit

48. This diagram shows a \_\_\_\_\_ attached to a tyre.



- A. resin
- B. tube
- C. dynamo
- D. bottle

49. A \_\_\_\_\_ heats the metal disc to cooking temperature in a gas cooker.

- A. nichrome element
- B. steel plate
- C. mica plate
- D. bunsen burner

50. \_\_\_\_\_ is an example of a gaseous fuel.

- A. camphor
- B. mercury
- C. butane
- D. sulphur

51. The electric kettle is made up of a chrome plated aluminium body and a \_\_\_\_\_ .

- A. nichrome element
- B. stainless steel plate
- C. mica plate
- D. gas cylinder

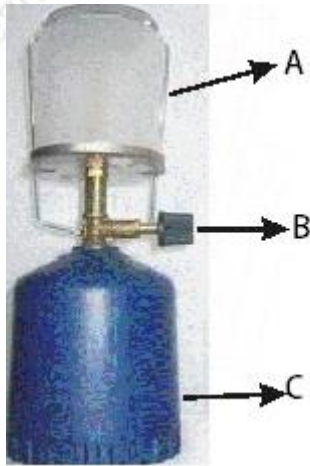
52. The charcoal pressing iron is made up of a wooden handle and a heavy \_\_\_\_\_ container.

- A. metal
- B. ceramic
- C. steel
- D. glass

53. The nichrome elements of the electric cooker are covered in magnesia in order to \_\_\_\_\_ .

- A. prevent them from breaking
- B. help them last longer
- C. keep them airtight
- D. insulate them from the steel plates

54. The part labelled B is called \_\_\_\_\_ .



- A. light turner
- B. remote controller
- C. regulator
- D. control valve

55. The temperature range for ironing is \_\_\_\_\_.

- A. 121°C-204°C
- B. 200°C-500°C
- C. 50°C-100°C
- D. 800°C-1000°C

56. A hermetic type compressor is one that is \_\_\_\_ .

- A. open
- B. sealed
- C. wrapped
- D. full

57. The tube of the electric kettle must be watertight in order to \_\_\_\_\_ .

- A. facilitate the boiling process

- B. remove unwanted particles
- C. prevent air leakage into the tube
- D. prevent water leakage into the element

58. A gas lamp is made up of a gas cylinder, a pipe and a \_\_\_\_\_ .

- A. wooden cover
- B. glass base
- C. ceramic base
- D. spherical glass

59. Gaseous fuel is usually referred to as \_\_\_\_\_ .

- A. hydrocarbon
- B. fossil fuels
- C. natural gas
- D. biocarbon

60. This type of water heater is called \_\_\_\_\_ .



- A. the transparent type
- B. the free outlet type
- C. the pressure type
- D. the cistern type

61. The heating element in an electric iron withstands the great heat produced due to its \_\_\_\_\_ .

- A. low boiling point
- B. high melting point
- C. low melting point
- D. high boiling point

62. Cylinders in the kerosene cooker are perforated so as to allow in \_\_\_\_\_ during burning.

- A. steam
- B. fire
- C. heat
- D. air

63. The evaporator is also known as the \_\_\_\_\_ coils.

- A. cold
- B. steaming
- C. heating
- D. cooling

64. The following appliances convert electrical energy into heat energy except \_\_\_\_\_.

- A. water heater
- B. light bulb
- C. gas lamp
- D. microwave

65. The gas lamp uses \_\_\_\_\_ in its cylinder for burning.

- A. butane

- B. ethylene
- C. sulphur
- D. butanol

66. Qualities of a good heating element is that the materials must \_\_\_\_\_ .

- A. conduct heat at low temperatures
- B. be malleable and ductile
- C. have low temperature and boiling point
- D. have high resistance and melting point

67. What is the name of this item?



- A. Light bulb
- B. Gas lamp
- C. Bunsen burner
- D. Gas burner

68. This appliance is used to turn solid substances into \_\_\_\_\_ forms.



- A. pure
- B. crushed
- C. mixed
- D. watery

69. As current flows through an electric iron, the electrical energy is converted into \_\_\_\_\_ energy, which is used for ironing.

- A. solar
- B. chemical
- C. heat
- D. light

70. This item is called a \_\_\_\_\_ machine .



- A. grinding
- B. blending
- C. mixing
- D. crushing

71. The free outlet type supplies limited hot water while the \_\_\_\_\_ type supplies in many hot water outlets.

- A. basic
- B. pressure
- C. cistern
- D. transparent

72. \_\_\_\_ is fitted to the upper steel plate of an iron to minimize the upward flow of heat from the elements.

- A. A steel plate
- B. A nichrome element
- C. A mica plate
- D. An asbestos pad

73. A common way of producing heat for domestic purposes is by \_\_\_\_\_ .

- A. electric current
- B. burning fuel
- C. igniting flames
- D. striking stones

74. A generator that supplies direct current only is called \_\_\_\_\_.

- A. transformer
- B. dynamo
- C. upriser
- D. carburettor

75. Burning is a process by which chemical energy is changed to \_\_\_\_\_.

- A. heat
- B. light
- C. steam
- D. fire



**TOPIC: MAINTENANCE**

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

1. The diagram labelled A is a \_\_\_\_\_ iron.



- A. steam
- B. electric
- C. flat
- D. coal

2. \_\_\_\_\_ maintenance is the repair work carried out after equipment has broken down.

- A. Corrective
- B. Automatic
- C. Preventive
- D. Predictive

3. \_\_\_\_\_ is necessary in order to remove thick frost which reduces the cooling effect of the refrigerator.

- A. Freezing
- B. Defrosting
- C. Icing
- D. Heating

4. An open circuit in a faulty electric iron is a sign of a \_\_\_\_\_ .

- A. broken element

- B. dusty coil
- C. twisted wire
- D. hot mica plate

5. Dead batteries in a radio must be immediately replaced to prevent \_\_\_\_\_ .

- A. melting
- B. smelling
- C. exploding
- D. rotting

6. What is the name of this appliance?



- A. Electric iron
- B. Steam iron
- C. Tilley iron
- D. Coal iron

7. Varnished table tops are cleaned with warm water and soft cloth, while adding one tablespoonful of \_\_\_\_\_ per litre of water.

- A. kerosene
- B. diesel
- C. paraffin
- D. dettol

8. Polished wood are cleaned with a soft cloth in warm water and a tablespoonful of \_\_\_\_\_ in 4 litres of water.

- A. kerosene
- B. petrol
- C. vinegar
- D. paraffin

9. The use of \_\_\_\_\_ is encouraged in order to avoid scratching of crockery.

- A. mild detergent
- B. strong alkali
- C. coarse abrasive
- D. metal scourer

10. Use of nylon scourer with fine abrasive powder during cleaning is a care given to \_\_\_\_\_ pots.

- A. aluminium
- B. plastic
- C. wooden
- D. ceramic

11. The diagram labelled C is called a \_\_\_\_\_ iron .



- A. steam
- B. electric
- C. flat
- D. coal

12. \_\_\_\_\_ of clothes may occur if the lid of a coal iron is left unlocked.

- A. Wetting
- B. Cracking
- C. Drying
- D. Burning

13. In boiling out a new kettle, one teaspoon of \_\_\_\_\_ must be added to each litre of water.

- A. alkali
- B. potash
- C. soda
- D. borax

14. These items are classified as \_\_\_\_\_ .



- A. furniture
- B. gadgets
- C. electronics
- D. kitchenware

15. The diagram labelled D is called \_\_\_\_ iron .



- A. steam
- B. electric
- C. flat
- D. coal

16. Which of these is a remedy given for continuous up and down rolling of pictures on a TV set?

- A. Hitting the TV set.
- B. Adjusting the power knob.
- C. Switching off the TV set.
- D. Adjusting the vertical hold knob.

17. Which of the following is a care given to painted wood tops?

- A. Scrubbing with a hard brush.
- B. Spraying perfumes on tops.
- C. Heating up the painted surfaces.
- D. Washing with warm and soapy water.

18. Which of the following is a remedy given for the appearance of "ghost pictures" on a TV screen?

- A. Adjust the volume
- B. Adjust the aerial
- C. Change the TV channel
- D. Relocate the TV set

19. An experienced \_\_\_\_\_ must be invited for repairs whenever an electrical appliance becomes faulty.

- A. plumber
- B. electrician
- C. doctor
- D. trader

20. \_\_\_\_\_ maintenance is carried out in order to avoid breakdown.

- A. Corrective
- B. Preventive
- C. Predictive
- D. Selective

21. An air-conditioner must be switched off before \_\_\_\_\_ .

- A. cleaning
- B. cooling
- C. heating
- D. testing

22. Abrasives and metal scourers must not be used on tin utensils in order to avoid \_\_\_\_\_ .

- A. bleaching
- B. rusting
- C. breaking
- D. cracking

23. The diagram labelled B is called \_\_\_\_ .



- A. steam
- B. electric
- C. flat
- D. coal

24. \_\_\_\_ should be used as detergent when cleaning the inside of a refrigerator.

- A. Soda bicarbonate
- B. Silica gel
- C. Sodium chloride
- D. Potassium chlorite

25. \_\_\_\_\_ should not be used on enamel pots in order to avoid breaking.

- A. Metal scourer
- B. High heat
- C. Abrasives
- D. Detergents

26. To effectively care for electrical appliances, the \_\_\_\_\_ must be read and understood thoroughly.

- A. learner's permit
- B. user's instruction
- C. instruction manual
- D. electronic brochure

27. A bed is a framework made of wood or \_\_\_\_\_ .

- A. cotton
- B. iron
- C. plastic
- D. ceramic

28. A 'megga tester' is used to test for continuity between the \_\_\_\_\_ and \_\_\_\_\_ terminals in the iron.

- A. positive(P), neutral(N)
- B. north(N), south(S)
- C. live(L), neutral(N)
- D. positive(P), negative(N)

29. Stains on crockery can be removed by rubbing with \_\_\_\_ .

- A. grease
- B. petrol
- C. oil
- D. salt

30. New kettles must be made to boil out for 10 minutes in order to prevent \_\_\_\_ .

- A. scratching
- B. peeling
- C. discoloration
- D. waxing

31. Care given to bed are regular dusting and \_\_\_\_\_ of the wood frame.

- A. washing
- B. scrubbing



- C. polishing
- D. scraping

32. Chairs can be made of wood, iron or \_\_\_\_\_ .

- A. cotton
- B. ceramic
- C. sand
- D. plastic

33. Use of \_\_\_\_\_ on polished wood will cause scratching of the surface.

- A. files
- B. abrasives
- C. insecticides
- D. water

34. Silver cutlery need frequent polishing and cleaning with wood-ash and \_\_\_\_\_ .

- A. tiro
- B. soda
- C. lime
- D. potash

35. Care must be taken to avoid heat on polished wood because it causes \_\_\_\_\_.

- A. white heat marks
- B. breaking of table tops
- C. cracking of table tops
- D. discolouration of table

36. Chairs can be taken care of by dusting and \_\_\_\_\_ .

- A. brushing
- B. scratching
- C. scrapping
- D. scrubbing

37. It is important that we take good care of appliances that we use so that they can \_\_\_\_\_ .

- A. be handed down
- B. work better
- C. be admired by all
- D. last longer

## TOPIC: MATERIALS AND PROCESSING

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

1. Articles or items made from clay usually need to be fired \_\_\_\_\_.
  - A. once
  - B. twice
  - C. thrice
  - D. frequently
  
2. Crane hooks and chains are heavy equipments that can be made with \_\_\_\_\_.
  - A. ceramics and wood
  - B. brass and latex
  - C. wrought iron and high carbon steel
  - D. aluminium and paper
  
3. The two types of plastics are thermoplastics and \_\_\_\_\_.
  - A. electrosets
  - B. thermosets
  - C. electrolastics
  - D. thermosats
  
4. The second firing of clayey articles is done at a higher temperature in order to \_\_\_\_\_.
  - A. harden the article
  - B. soften the article
  - C. moisten the article
  - D. beautify the article

5. Grey clay is used for making \_\_\_\_\_ .

- A. stoneware utensils
- B. electronics
- C. fine utensils
- D. earthenware utensils

6. This metal is called \_\_\_\_\_ .



- A. copper
- B. clay
- C. zinc
- D. wrought iron

7. Articles made from clay are initially fired at a temperature of \_\_\_\_\_ in order to \_\_\_\_\_ .

- A. 500°C, drive off excess heat
- B. 1000°C, add more heat
- C. 1000°C, drive off excess moisture
- D. 500°C, drive off excess moisture

8. Plastics are said to be \_\_\_\_ when even though light can pass through, one cannot clearly see through them.

- A. transparent
- B. translucent

- C. bright
- D. opaque

9. Which of the following is NOT an example of a non-ferrous metal?

- A. Brass
- B. Aluminium
- C. Copper
- D. Wrought iron

10. When hot, plastics can be shaped by \_\_\_\_\_.

- A. pressing and squeezing
- B. rubbing and scratching
- C. pushing and pulling
- D. holding and dragging

11. Which of the following is white in colour and obtained from kaolin?

- A. Red clay
- B. Grey clay
- C. China clay
- D. Fine clay

12. The basic material in the production of ceramics is \_\_\_\_\_ .

- A. sand
- B. clay
- C. wood
- D. water

13. Rubber can be used to protect machinery from wear and sudden shock because it is \_\_\_\_\_ .

- A. brittle
- B. elastic
- C. soft
- D. light

14. The rubber material of our raincoats serve to protect us from the rain because it is \_\_\_\_\_ .

- A. soft
- B. light
- C. elastic
- D. waterproof

15. A modern toilet is entirely built with \_\_\_\_\_ .

- A. rubber
- B. metal
- C. glass
- D. ceramic

16. Example of joinery made from wood is \_\_\_\_\_.

- A. elevator
- B. bolts and nuts
- C. staircase
- D. computer

17. Ceramics qualify to be used in making furnaces because \_\_\_\_\_ .

- A. they break in the face of high temperature

- B. they can withstand very high temperatures
- C. they can control the temperature of the furnace
- D. they can make the fire burn faster than normal

18. The melting point for cast iron is \_\_\_\_\_ .

- A. 1500°C
- B. 2500°C
- C. 1240°C
- D. 3000°C

19. Red clay contains \_\_\_\_\_ .

- A. carbon dioxide
- B. sulphur oxide
- C. iron oxide
- D. potassium oxide

20. Zinc can be used in the production of the following **EXCEPT** \_\_\_\_\_ .

- A. battery
- B. tin wires
- C. foils
- D. cotton buds

21. \_\_\_\_\_ is an example of a non-ferrous metal.

- A. Copper
- B. Cast iron
- C. Steel
- D. Wrought iron

22. \_\_\_\_\_ is the process by which the properties of rubber are improved upon.

- A. Vulcanizing
- B. Smoldering
- C. Soldering
- D. Plumbing

23. Red clay contains \_\_\_\_\_ .

- A. carbon oxide
- B. iron dioxide
- C. iron oxide
- D. carbon dioxide

24. Medical use of wood is found in \_\_\_\_\_ .

- A. surgical equipment
- B. x-ray of patients
- C. drug packaging
- D. construction of artificial limbs

25. All kinds of cutting tools can be made from \_\_\_\_\_ .

- A. aluminium
- B. high carbon steel
- C. brass
- D. low carbon steel

26. High carbon steels contain \_\_\_\_\_ .

- A. 99% iron with small amount of impurities
- B. 80% carbon with large amount of iron



- C. 90% carbon with small amount of iron
- D. 50% each of carbon and iron

27. Red clay is used for making \_\_\_\_\_ .

- A. stoneware utensils
- B. electronics
- C. fine utensils
- D. earthenware utensils

28. Household appliances made from wood include \_\_\_\_\_ .

- A. television
- B. wardrobe
- C. cooking pots
- D. cutleries

29. Which is the odd one out?



30. Parts of housing where wood is used does NOT include \_\_\_\_\_ .

- A. bathtubs
- B. doors
- C. wardrobes
- D. roofings

31. Rubber is used in the making of \_\_\_\_\_ .

- (i) hoses
- (ii) pipes
- (iii) belts
- (iv) footwears

- A. (i) only
- B. (i) and (ii) only
- C. (i) and (iii) only
- D. All of the above

32. This object is made from \_\_\_\_\_ .



- A. plastic
- B. aluminium
- C. steel
- D. copper

33. This item is made of \_\_\_\_\_ .



- A. plastic
- B. wood
- C. ceramic
- D. metal

34. The basic material for the production of ceramics is \_\_\_\_\_ .

- A. sand
- B. clay
- C. glass
- D. metal

35. The latex drawn from the rubber tree is not strong and softens at a temperature of \_\_\_\_\_ .

- A. 200°C
- B. 160°C
- C. 50°C
- D. 100°C

36. This item is made of \_\_\_\_\_ .



- A. plastic
- B. wood
- C. ceramics
- D. wood

37. This item is made from \_\_\_\_\_ .



- A. lead
- B. tin
- C. copper
- D. zinc

38. This metal is called \_\_\_\_\_ .



- A. lead
- B. steel
- C. zinc
- D. tin

39. Tools that can be made from wood include \_\_\_\_\_

- A. wheelbarrow
- B. hammer handle
- C. scissors
- D. spanner

40. Synthetic rubbers are manufactured from \_\_\_\_\_ .

- A. electricity
- B. plants
- C. chemicals
- D. animal skin

41. Which of the following reasons qualify ceramics as good storage materials for water and chemicals?

- A. They are brittle and so can protect the items inside.

- B. They are resistant to diseases and infections from the environment.
- C. They do not corrode and are resistant to chemical attack.
- D. They beautify the storage cans.

42. Metals are divided into \_\_\_\_\_ .

- A. natural and synthetic metals
- B. plain and coloured metals
- C. heavy and light metals
- D. ferrous and non-ferrous metals

43. Example s of softwoods are \_\_\_\_\_ and \_\_\_\_\_ .

- A. cedar, pine
- B. cedar, iroko
- C. iroko, spruce
- D. ekki, omo

44. This item is made from \_\_\_\_\_ .



- A. copper
- B. lead
- C. tin
- D. zinc

45. The type of plastic used in making pipes, plumbing fittings and rainwears is \_\_\_\_\_.

- A. nylon
- B. acrylic PMMA
- C. polyethylene polythene
- D. polyvinyl chloride

46. The type of plastic used in the making of toys and domestic utensils is \_\_\_\_\_.

- A. nylon
- B. acrylic PMMA
- C. polyethylene polythene
- D. polyvinyl chloride

47. The process that involve the addition of sulphur to rubber, together with fine carbon particles while heating is known as \_\_\_\_\_.

- A. smoldering
- B. vulcanizing
- C. soldering
- D. plumbing

48. The use of zinc include \_\_\_\_\_.

- A. making protective coatings for plastics.
- B. use in embroidery work.
- C. use as foundation work for ceramics items.
- D. use in making protective coatings for steel.

49. Natural rubbers are produced from the \_\_\_\_\_ of rubber trees.

- A. latex

- B. root
- C. leaves
- D. stem

50. Plastics are said to be \_\_\_\_\_ when one can see through them.

- A. bright
- B. translucent
- C. opaque
- D. transparent

51. Which of the following is NOT a use of aluminium? The use of aluminium does NOT include \_\_\_\_\_ .

- A. packaging for beverage can bodies and tops.
- B. making transport vehicles like cars and aircrafts.
- C. making of beads
- D. construction for roofing and wall cladding.

52. Which of the following is NOT a property of rubber ?

- A. They are brittle
- B. They are soft
- C. They are elastic
- D. They are waterproof

53. Cast iron contains a mixture of carbon and iron with carbon content at \_\_\_\_\_ percent

- A. 1-10
- B. 1.5-5
- C. 5.5-10.5
- D. 2-2.5



54. Wood is used in the \_\_\_\_\_ industry for production of books and magazines.

- A. cotton
- B. latex
- C. paper
- D. glass

55. This item is made of \_\_\_\_\_ .



- A. plastic
- B. wood
- C. ceramic
- D. metal

56. In the clothing industry, use of wood can be found in all EXCEPT\_\_\_\_\_.

- A. making of lipsticks
- B. making of rayon stockings
- C. making of shoe soles
- D. making of jewelries

57. Thermoplastics are plastics that become \_\_\_\_\_ when heated.

- A. brittle
- B. sharp
- C. soft
- D. hard

58. Rubber soles on our shoes serve to protect our feet from the hard ground because they are \_\_\_\_\_ .

- A. brittle
- B. elastic
- C. soft
- D. light

59. Natural rubber is destroyed with age and when exposed to \_\_\_\_\_ .

- A. dust
- B. rain
- C. cold
- D. sunlight

60. Examples of hardwoods are \_\_\_\_\_ and \_\_\_\_\_.

- A. cedar, pine
- B. cipher, spruce
- C. pine, spruce
- D. iroko, afromosia

61. Plastics are said to be opaque when \_\_\_\_\_.

- A. light cannot pass through them
- B. objects can pass through them
- C. light can pass through them
- D. people can look through them

62. High carbon steel and wrought iron are similar in properties because they are both \_\_\_\_\_ .

- A. hard and brittle
- B. rough and fusible
- C. malleable and ductile
- D. fine and sharp

63. The melting point of latex is \_\_\_\_\_ .

- A. 150°C
- B. 75°C
- C. 220°C
- D. 300°C

64. We can find the use of wrought iron in the making of \_\_\_\_\_ .

- A. baby toys
- B. crane hooks
- C. cutleries
- D. foils

65. The melting point for wrought iron is \_\_\_\_\_ .

- A. 2005°C
- B. 1500°C
- C. 1240°C
- D. 2400°C

66. Uses of woods apply in \_\_\_\_\_ .

- (i) housing
- (ii) furniture
- (iii) transport
- (iv) medicine

- A. (i) only
- B. (i) and (ii) only
- C. (i), (ii) and (iii)
- D. All of the above

## TOPIC: SAFETY

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

1. What is the first thing to do on a person with a high fever?
  - A. Take him to the hospital and place him on bed rest.
  - B. Remove his cloths and use a wet towel all over the body.
  - C. Remove his cloths and make him bath three times a day.
  - D. Give him food and some pain killers.
  
2. Accidents that require first aid treatment include all EXCEPT \_\_\_\_\_.
  - A. cuts
  - B. body massage
  - C. snakebites
  - D. scorpion bites
  
3. This item is used on wounds to \_\_\_\_\_.



- A. disinfect wound
- B. stop bleeding
- C. ease pain
- D. clean up wound

4. What is the name of this box?



- A. First aid box
- B. Medical box
- C. Clinic box
- D. Doctor's box

5. The material in a first aid box used to keep the drug on the wound for a long time is \_\_\_\_\_.

- A. plaster
- B. scarf
- C. capsule
- D. penicillin

6. What is the name of this material?



- A. Penicillin
- B. Plaster

- C. Cotton wool
- D. Scissors

7. This item is used on wounds in other to \_\_\_\_\_.



- A. clean up wounds
- B. stop pain
- C. cut open the wound
- D. control bleeding

8. What is the name of this item?



- A. Scissors
- B. Knife
- C. Razor blade
- D. Matchet

9. Which is the odd one out ?

A.



B.



C.



D.



10. Why is a cold wet towel used on a person with high fever?

- A. It helps moisten the patient's body.
- B. It helps calm the person down and make him sleep.
- C. It helps cool down the body temperature
- D. It helps alleviate body pains.

11. Which of the following is a case that requires first aid treatment?

- A. Scorpion stings
- B. Surgery
- C. X-ray
- D. Death



12. What is the name of this item?



- A. Plaster
- B. Cotton wool
- C. Clothe
- D. Bandage

13. What is the name of this item?

- A. Penicillin
- B. Tablet
- C. Disinfectant
- D. Capsule

14. \_\_\_\_\_ is used to cut bandages and plasters.

- A. Knife
- B. Scissors
- C. Matchet
- D. Needle

15. \_\_\_\_\_ is applied on a fresh wound in order to help it heal fast.

- A. Tablet

- B. Penicillin
- C. Ink
- D. Plaster

16. These items are known as \_\_\_\_\_ tools .



- A. workshop
- B. driving
- C. first aid
- D. drawing

17. A disinfectant is used on a wound or cut in order to \_\_\_\_\_ .

- A. mark the wound
- B. prevent infection of the wound
- C. decorate the wound
- D. stop pain

18. What is the first aid treatment to give in the case of a snake or scorpion bite?

- A. Tie rope on the bleeding point and inject.
- B. Cut off the bitten part in order to avoid spread of poison.
- C. Tie rope above the bite point and suck out the poison.
- D. Tie rope above the bite and make razor blade incisions on the bite point so poison can flow out.

19. This material is used to \_\_\_\_\_ .



- A. disinfect wounds
- B. heal wounds
- C. alleviate pain
- D. clean up wounds

20. This material is applied on a wound in order to \_\_\_\_\_ .



- A. prevent infections
- B. spread infections
- C. apply pressure on the wound
- D. stop bleeding

21. What is the first aid treatment given to a drowning person?

- A. Gently press the belly to release water through the mouth and nose.
- B. Gently rock the person to sleep.
- C. Massage the person's body to release tension.
- D. Give the person an anti-shock capsule in case of shock.

22. What is the name of this item?



- A. Penicillin
- B. Plaster
- C. Scissors
- D. Cotton wool

23. First aid materials include \_\_\_\_\_ .

- (i) plasters
  - (ii) cotton wool
  - (iii) scissors
  - (iv) penicillin
- A. (i) only
  - B. (i) and (ii) only
  - C. (i) and (iii) only
  - D. All of the above

24. What is the name of this item?



- A. Penicillin
- B. Tablets
- C. Scissors
- D. File

25. \_\_\_\_\_ are used to ease feelings of pain.

- A. Ink
- B. Iodine
- C. Water
- D. Tablets

26. \_\_\_\_\_ is used for controlling bleeding.

- A. Cotton wool
- B. Scissors
- C. Bandage
- D. Razor blade

27. \_\_\_\_\_ is the container for materials needed for first aid treatment.

- A. Medical box
- B. First aid box

- C. Clinical box
- D. Service box

28. Which of the following is the first thing to do in applying first aid treatment to a bleeding patient?

- A. Cover bleeding with piece of clothe.
- B. Soak bleeding in hot water.
- C. Drain bleeding with cotton wool and iodine.
- D. Place ice packs on bleeding.

29. The help or emergency treatment given to an injured or sick person before professional medical care is available is termed \_\_\_\_\_ .

- A. first aid
- B. massage
- C. surgery
- D. natural aid

**TOPIC: TOOLS AND MATERIALS**

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

1. The \_\_\_\_\_ is used for curved work and can be passed through a hole for pierced work.

- A. piercing saw
- B. brass back saw
- C. junior hacksaw
- D. hacksaw

2. The item labelled "II" is called \_\_\_\_\_ .

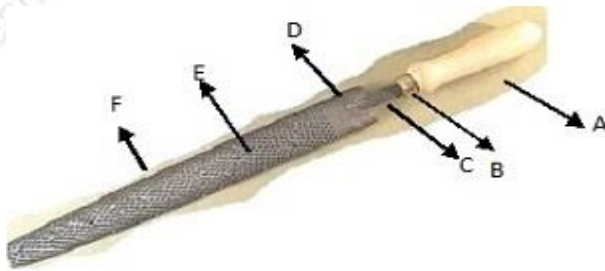


- A. junior hacksaw
- B. hacksaw
- C. brass back saw
- D. piercing saw

3. The tool used to mark the bore of tubes and toneness of parallel surfaces is the \_\_\_\_\_ .

- A. divider
- B. screwdriver
- C. outside calipers
- D. odd-leg calipers

4. The part labelled C is called \_\_\_\_\_ .



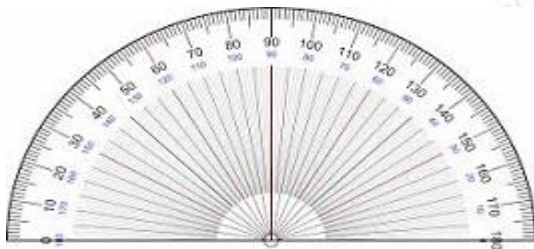
- A. heel
- B. face
- C. edge
- D. tang

5. What is the name of this tool?



- A. Chisel
- B. File
- C. Saw
- D. Knife

6. What is the name of this tool?



- A. Semi circle
- B. C-square



- C. Protractor
- D. Compass

7. Which of the following files is mainly used as a saw?

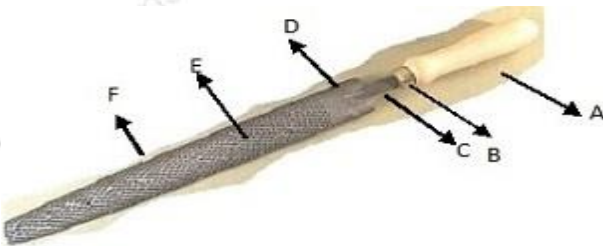
- A. Riffler file
- B. Round file
- C. Abrafile
- D. Needle file

8. What is the name of this tool?



- A. T-square
- B. Steel ruler
- C. Divider
- D. Set square

9. The part labelled E is called \_\_\_\_\_ .



- A. heel
- B. face
- C. edge
- D. point

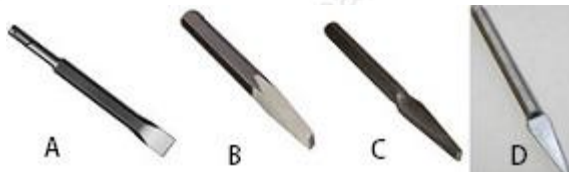
10. Hammers weighing between \_\_\_\_\_ are used for driving in pins.

- A. 500-1500g
- B. 500-2000g
- C. 1000-2000g
- D. 500-750g

11. The \_\_\_\_\_ is used for fine work in soft metals.

- A. hacksaw
- B. junior hacksaw
- C. piercing saw
- D. brass back saw

12. Item A is called \_\_\_\_\_.



- A. diamond point chisel
- B. flat chisel
- C. half round chisel
- D. cross out chisel

13. Hammers weighing 1000g are used for \_\_\_\_\_.

- A. cutting metals or chiselling
- B. driving pins in and out
- C. driving into light materials
- D. driving in hot metals

14. What is the name of this tool?



- A. Spanner
- B. Screwdriver
- C. File
- D. Saw

15. What is the name of this tool?



- A. Divider
- B. Compass
- C. Protractor
- D. Scissors

16. Surface plates are used in the workshop with angle plates, vee blocks and \_\_\_\_\_ .

- A. T-squares
- B. dividers
- C. clamps
- D. protractors

17. The item labelled "III" is called \_\_\_\_\_ .



- A. hacksaw
- B. junior hacksaw
- C. brass back saw
- D. piercing saw

18. The common hacksaws are \_\_\_\_\_ long, \_\_\_\_\_ wide and \_\_\_\_\_ thick.

- A. 250-300mm, 13mm, 0.65mm
- B. 500-750mm, 5mm, 7.5mm
- C. 50-150mm, 20mm, 10.5mm
- D. 550-650mm, 5mm, 0.01mm

19. Types of saw used in metal work does NOT include \_\_\_\_\_

- A. front-back saw
- B. hacksaw
- C. pierciing saw
- D. brass back saw

20. The head of a hammer is made of high carbon steel with approximately \_\_\_\_\_ carbon.

- A. 10%
- B. 0.25%
- C. 0.6%
- D. 11.6%

21. During measurement of tools, the T-square can only be used for checking a \_\_\_\_\_ angle.

- A. 90°
- B. 60°
- C. 45°
- D. 270°

22. Which of the saws has an adjustable frame that allows a very fine blade to be held in a clamp-like grip and tension?

- A. Junior hacksaw
- B. Piercing saw
- C. Brass back saw
- D. Hacksaw

23. The tool used on the lathe for scribing a line round the work is the \_\_\_\_\_ .

- A. odd-leg calipers
- B. parallel calipers
- C. outside calipers
- D. inside calipers

24. Hammer types are identified by \_\_\_\_\_ .

- A. size of their handles
- B. size of their heads
- C. length of the handles
- D. shape of the heads

25. What is the name of this tool?



- A. Calipers
- B. Protractor
- C. Scriber
- D. Punch

26. The \_\_\_\_\_ chisel is used for cutting square grooves such as slots and channels.

- A. half-round
- B. flat
- C. cross cut
- D. diamond point

27. A scriber is made of \_\_\_\_\_ .

- A. wood
- B. bronze
- C. ceramic
- D. tool steel

28. Which type of file resembles the blade of a knife and is useful for cleaning corners?

- A. Knife file
- B. Round file

- C. Flat file
- D. Pillar file

29. \_\_\_\_\_ are used for inserting and removing screws.

- A. Drillers
- B. Spanners
- C. Screwdrivers
- D. Mallet

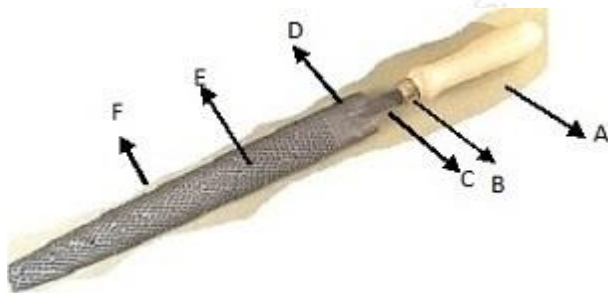
30. The hammer is made up of two parts which are \_\_\_\_\_ and \_\_\_\_\_ .

- A. top, bottom
- B. tail, shaft
- C. head, tail
- D. head, handle

31. What is the surface plate used for ?

- A. It is used to test whether other surfaces are flat enough.
- B. It is used to place the drawing paper during technical drawing.
- C. It is used to test for the temperature of tools.
- D. It is used to place tools during metal work.

32. The part labelled B is called \_\_\_\_\_ .



- A. ferrule

- B. head
- C. handle
- D. tang

33. The item labelled "I" is called \_\_\_\_ .

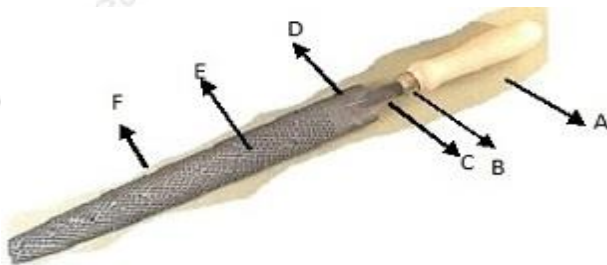


- A. hacksaw
- B. junior hacksaw
- C. brass back saw
- D. piercing saw

34. The \_\_\_\_\_ are used for engraving, die sinking and silver smithing

- A. abrafiles
- B. round files
- C. needle files
- D. riffler files

35. The part labelled D is called \_\_\_\_\_ .



- A. heel
- B. face
- C. edge
- D. point



36. What is the name of this tool?



- A. Spanner
- B. Chisel
- C. Punch
- D. Screwdriver

37. Files classified according to their shape include \_\_\_\_\_ .

- A. riffler file
- B. abrafile
- C. square file
- D. needle file

38. The driving tools used in metal work does NOT include \_\_\_\_\_ .

- A. punches
- B. chisels
- C. spanners
- D. screwdrivers

39. The steel ruler works with \_\_\_\_ and \_\_\_\_.

- A. dividers, calipers

- B. punches, protractors
- C. compass, protractor
- D. calipers, file

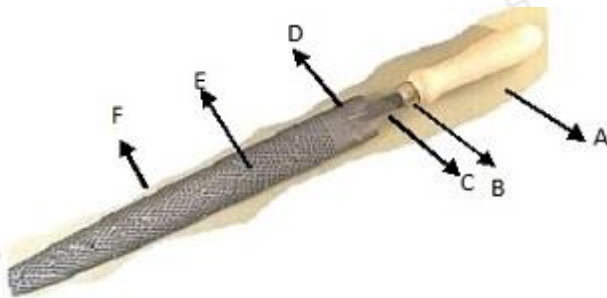
40. Which of the following types of hammer is generally used by the panel beater?

- A. Soft hammer
- B. Ball peen hammer
- C. Planishing head hammer
- D. Rivetting hammer

41. Which of the following is NOT a type of hammer?

- A. Straight peen head
- B. Ballpoint head
- C. Blocking head
- D. Ball peen head

42. The part labelled A is called \_\_\_\_\_ .

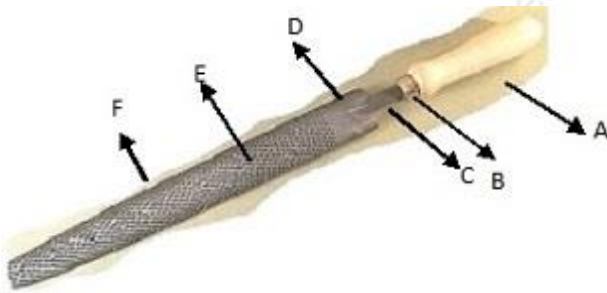


- A. ferrule
- B. lenght
- C. wooden handle
- D. tang

43. The blade of the screwdriver is made of \_\_\_\_ .

- A. copper
- B. wrought iron
- C. cast iron
- D. tool steel

44. The part labelled F is called \_\_\_\_ .



- A. heel
- B. face
- C. edge
- D. point

45. Calipers are used as \_\_\_\_\_ tools.

- A. marking and boring
- B. boring and drilling
- C. measuring and cutting
- D. marking and measuring

46. Which of the files is out on all four sides and tapers towards the tip?

- A. Flat files
- B. Pillar files
- C. Square files
- D. Knife files

47. Outside calipers are used to \_\_\_\_\_ .

- A. clamp tools during metal work
- B. mark the inside of parallel surfaces
- C. mark the center of the ends of bars and tools
- D. mark the outside of bars and rods

48. Item C is called \_\_\_\_\_ .



- A. diamond point chisel
- B. flat chisel
- C. half round chisel
- D. cross out chisel

49. Files classified according to their cut include \_\_\_\_\_ .

- A. flat file
- B. abrafile
- C. half round file
- D. square file

50. The item labelled "IV" is called \_\_\_\_\_ .



- A. Junior hacksaw
- B. hacksaw
- C. brass back saw
- D. piercing saw

51. \_\_\_\_\_ are tools which are used for marking out circles, arcs and radii.

- A. Scriber and surface plate
- B. Screwdriver and scriber
- C. T-square and punch
- D. Divider and calipers

52. A scriber is used to \_\_\_\_\_ .

- A. bore a hole on the metal
- B. scratch a line on the metal
- C. draw a line on the surface plate
- D. puncture the metal

53. What is the name of this tool ?



- A. Spanner
- B. Chisel
- C. Punch
- D. Screwdriver

54. Calipers are used in measuring the \_\_\_\_\_ of the objects being formed.

- A. radii
- B. degree
- C. diameter
- D. vertex

55. The \_\_\_\_\_ is used for drawing down and riveting in an awkward position.

- A. pent head hammer
- B. creasing hammer
- C. whorring head hammer
- D. cross peen head hammer

56. Which of the following is NOT a type of caliper?

- A. Outside calipers
- B. Micksteel calipers
- C. Inside calipers
- D. Odd-leg calipers

57. Which of the following types of hammer is generally used by the sheet metal workers?

- A. Sheet head hammer
- B. Blocking head hammer
- C. Planishing head hammer
- D. Hallowing head hammer

58. There are \_\_\_\_\_ main types of chisels.

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

59. Which of the following is NOT a use of punches?

- A. They are used to bore holes on the sheet metal being worked on.
- B. They are used to measure the length of metal being worked upon.

- C. They are used to make scribed lines more conspicuous.
- D. They are used to locate the centres of circles, radii and arcs.

60. Measuring tools include \_\_\_\_\_ .

- (i) steel ruler
- (ii) T-square
- (iii) protractor

- A. (i) only
- B. (ii) only
- C. (iii) only
- D. All of the above

61. Why are chisels called cold chisels?

- A. They are used to cut cold metals.
- B. They are used to make hot metals cold.
- C. They reduce the temperature of hot metals.
- D. They are used to mould hot metals.

62. Categories of tools include all EXCEPT \_\_\_\_\_ .

- A. marking tools
- B. spooking tools
- C. driving tools
- D. cutting tools

63. Hammers weighing between \_\_\_\_\_ and \_\_\_\_\_ are used for light work.

- A. 50-150g
- B. 500-1000g

- C. 100-250g
- D. 1000-10,000g

64. The steel ruler is made of \_\_\_\_\_ .

- A. steel or wood
- B. wrought iron or copper
- C. carbon steel or stainless steel
- D. bronze or wood

65. \_\_\_\_\_chisel is a general purpose chisel used for cutting sheet and plate metal and removing surplus metal from surface?

- A. Cross out
- B. Flat
- C. Half-round
- D. Diamond point

66. What type of hammer is this?



- A. Claw hammer
- B. Ball peen head
- C. Warrington hammer
- D. Blocking head

67. Which of the following is NOT a cutting tool?

- A. Chisel



- B. Spanner
- C. File
- D. Saw

68. The \_\_\_\_ chisel is used for squaring holes and clearing corners.

- A. flat
- B. cross out
- C. half -round
- D. diamond point

69. What category of tools does the scriber belong?

- A. Boring tools
- B. Driving tools
- C. Cutting tools
- D. Marking tools

70. What is the name of this tool?



- A. Screwdriver
- B. Spanner
- C. Scriber
- D. Divider

71. The \_\_\_\_ is a general purpose hammer.

- A. ball peen head hammer

- B. triple head hammer
- C. planishing head hammer
- D. single head hammer

72. Item D is called \_\_\_\_\_ .



- A. diamond point chisel
- B. flat chisel
- C. half round chisel
- D. cross out chisel

73. Item B is called \_\_\_\_\_ .

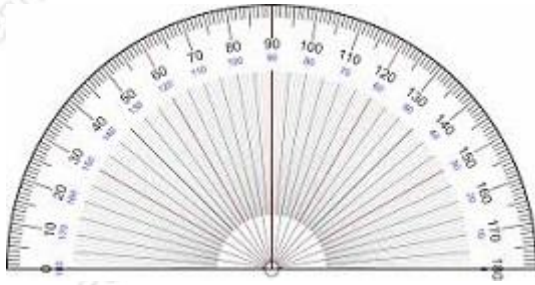


- A. diamond point chisel
- B. flat chisel
- C. half round chisel
- D. cross out chisel

74. Spanners whose ends can be adjusted are called \_\_\_\_\_ spanners.

- A. adjustable
- B. removable
- C. flexible
- D. fickle

75. What is this equipment used for?



- A. Percentage measurement
- B. Line measurement
- C. Degree measurement
- D. Angle measurement

76. Surface plates are made with \_\_\_\_\_ .

- A. rough surfaces
- B. flat surfaces
- C. curved surfaces
- D. crooked surfaces

77. What type of hammer is this?



- A. Straight peen head
- B. Ball peen head
- C. Blocking head
- D. Planishing head

78. The next exercise to carry out after marking of tools is to \_\_\_\_\_ .

- A. store the metals
- B. measure the metals
- C. cut the metals
- D. cool the metals

79. The saw is a \_\_\_\_\_ tool.

- A. driving
- B. drilling
- C. cutting
- D. marking

80. Dividers are used for marking out \_\_\_\_\_ .

- A. lines, angles and tangents
- B. arcs, circles and radii
- C. degrees, radian and radii
- D. lines, arcs and tangents

81. What type of hammer is this?



- A. Warrington hammer
- B. Claw hammer
- C. Blocking head hammer
- D. Soft hammer

82. The surface plate is used as a \_\_\_\_\_ in metalwork.

- A. surface to mark out metals
- B. surface to place tools
- C. surface for placing drawing papers
- D. drawing surface

83. Files are classified according to their cut, shape, and \_\_\_\_\_ .

- A. length
- B. height
- C. width
- D. dimension

84. The handle of the hammer is made of \_\_\_\_\_ .

- A. wood
- B. metal
- C. glass
- D. ceramic

85. Types of chisels include \_\_\_\_\_ .

- (i) chain chisel
- (ii) flat chisel
- (iii) half-round chisel
- (iv) diamond point chisel

- A. (i) only
- B. (i) and (ii) only
- C. (ii), (iii) and (iv)
- D. All of the above

86. What is the name of this tool?



- A. Hot table
- B. Bench plane
- C. Surface plate
- D. scriber

87. Which of the files is similar to flat file but thinner, and used by locksmiths?

- A. Square files
- B. Warding files
- C. Half round files
- D. Pillar files

88. Which of the following is NOT a marking out tool?

- A. Rip saw
- B. Surface plate
- C. Scriber
- D. Odd-leg

## TOPIC: YOU AND TECHNOLOGY

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

1. ISP's in Nigeria include \_\_\_\_\_ .

(i) skannet

(ii) linkserve

(iii) callus miller

(iv) infoweb

(v) cyberspace

A. (i) only

B. (i) and (ii) only

C. (i), (ii) and (iii)

D. (i), (ii), (iv) and (v)

2. Transmission requests are done through \_\_\_\_\_ or \_\_\_\_\_.

A. telephone line, television links

B. desktops, telephone calls

C. manual connections, tv links to ISP

D. telephone lines, radio link to ISP

3. The client computer must be linked to \_\_\_\_\_ .

A. intra service provider

B. internet service provider

C. internet server publisher

D. inter service provider

4. A computer may be located in these areas EXCEPT \_\_\_\_\_ .

- A. the office
- B. bathroom
- C. school
- D. home



# ANSWERS

## TOPIC: APPLIED ELECTRICITY AND ELECTRONICS

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

1. This diagram represents \_\_\_\_\_ arrangement of insulators.



- A. circular
- B. horizontal
- C. vertical
- D. triangular

The correct answer is option [C]

2. These items are known as \_\_\_\_ insulators.



- A. suspended
- B. pin type
- C. copper type
- D. strain type

The correct answer is option [B]

3. When the switch is closed, current will flow from the \_\_\_\_\_ to the \_\_\_\_\_ of a circuit.

- A. inductor, battery
- B. battery, capacitor
- C. inductor, capacitor
- D. capacitor, battery

The correct answer is option [B]

4. Which of the following power stations uses burning charcoal as a source of electricity generation?

- A. Egbin power station
- B. Afam power station
- C. Kainji Dam
- D. Oji river power station

The correct answer is option [D]

5. A loudspeaker converts information signals, in form of \_\_\_\_\_ back into sound.

- A. electric current
- B. magnetic waves
- C. aerial sounds
- D. radio waves

The correct answer is option [A]

6. The \_\_\_\_\_ is used to control radio waves.

- A. loudspeaker
- B. microphone
- C. antenna
- D. satellite

The correct answer is option [B]

7. A \_\_\_\_\_ set is a device that receives radio signals and changes them into sounds and pictures.

- A. television
- B. radio
- C. satellite
- D. computer

The correct answer is option [A]

8. Appliances which receive electricity supply from a circuit breaker are called \_\_\_\_\_.

- A. load
- B. points
- C. consumers
- D. receivers

The correct answer is option [A]

9. A \_\_\_\_\_ is a collection of equipment for the conversion, transmission and control of electric power.

- A. gas station
- B. filling station
- C. mini station
- D. sub-station

The correct answer is option [D]

10. This item is called a \_\_\_\_\_ insulator.



- A. strain type

- B. suspension
- C. pin type
- D. congestion

The correct answer is option [C]

11. Insulators for L.T distribution are arranged in a \_\_\_\_ formation.

- A. triangular
- B. vertical
- C. circular
- D. horizontal

The correct answer is option [B]

12. Insulators for H.T distributions are arranged in a \_\_\_\_\_ formation.

- A. triangular
- B. circular
- C. horizontal
- D. vertical

The correct answer is option [A]

13. The transformer is an equipment used in the conversion of \_\_\_\_ from one value to another.

- A. temperature
- B. pressure
- C. voltage
- D. frequency

The correct answer is option [C]

14. Current is only able to flow to components of a circuit only when the switch is \_\_\_\_\_.

- A. tied
- B. opened
- C. full
- D. closed

The correct answer is option [D]

15. The \_\_\_\_\_ wire is the most widely used AC system by the PHCN.

- A. single phase 2-
- B. three phase 4-
- C. three phase 3-
- D. single phase 3-

The correct answer is option [B]

16. Fuses designed to fit on the line supports are called \_\_\_\_\_ fuses.

- A. T.H
- B. K.V
- C. L.T
- D. H.T

The correct answer is option [D]

17. Which of the following is a safety device for H.T transmission systems?

- A. Earthed metal frame
- B. Earth leakage circuit breaker
- C. Line support and separators
- D. Generator control panel

The correct answer is option [B]

18. Electricity is transferred through \_\_\_\_\_ to sub stations.

- A. transformers
- B. transmission lines
- C. electric poles
- D. electric coils

The correct answer is option [B]

19. Which of the following uses burning gas as a source of electricity generation?

- A. Afam power station
- B. Kainji Dam
- C. Benue river power station
- D. Oji river power station

The correct answer is option [A]

20. In electronics, AC is an acronym for \_\_\_\_\_ .

- A. Aerial Capacitor
- B. Acute Current
- C. Altering Cable
- D. Alternating Current

The correct answer is option [D]

21. Transformers are rated in terms of \_\_\_\_\_ Ampere.

- A. Kilogram
- B. Kilovolt
- C. Kilometer
- D. Kilojoule

The correct answer is option [B]

22. An electrical circuit is said to be \_\_\_\_ when one or more appliances are connected to the circuit to form a complete current flow path.

- A. loaded
- B. running
- C. magnetic
- D. empty

The correct answer is option [A]

23. The \_\_\_\_ is a component of a circuit which stores up energy.

- A. inductor
- B. capacitor
- C. battery
- D. isolator

The correct answer is option [A]

24. A circuit is said to be "offloaded" when the electrical load is removed by \_\_\_\_.

- A. shutting down
- B. switching on
- C. switching off
- D. breaking out

The correct answer is option [C]

25. A \_\_\_\_ is an element that generates the radio frequency waves.

- A. radio transmitter
- B. transmitting serial
- C. receiving serial
- D. radio receiver

The correct answer is option [A]



26. Which of the following is a component of a transmission system?

- A. Meter phase
- B. Meter gauge
- C. Circuit breaker
- D. Generator

The correct answer is option [C]

27. A small tranformer of 100KVA can be mounted on \_\_\_\_\_ pole.

- A. VK 'H'
- B. VA 'H'
- C. HV 'H'
- D. KV 'H'

The correct answer is option [C]

28. The \_\_\_\_\_ is a hydropower that generates electricity at low frequency in Nigeria.

- A. Oji river power station
- B. Egbin power station
- C. kainji Dam
- D. Afam power station

The correct answer is option [C]

29. In a satellite television, the dish at individual homes receives television programmes from the \_\_\_\_\_ orbiting the earth.

- A. stars
- B. satellite
- C. electrons
- D. rockets

The correct answer is option [B]

30. The transmission of voltage from the grid substation is at \_\_\_\_\_ .

- A. 240KV and 132KV
- B. 23KV and 33KV
- C. 60KV and 30KV
- D. 66KV and 33KV

The correct answer is option [D]

31. Transmission of electric power is at high voltage and \_\_\_\_\_ .

- A. high pressure
- B. low frequency
- C. low volume
- D. high frequency

The correct answer is option [B]

32. The diagram is that of a \_\_\_\_\_ in space.



- A. windmill
- B. antenna
- C. satellite
- D. projector

The correct answer is option [C]

33. These items are known as \_\_\_\_\_ insulators.



- A. suspension
- B. pin type
- C. strain type
- D. copper type

The correct answer is option [A]

34. Insulators used in transmission lines are of the pin type, strain type and \_\_\_\_\_ .

- A. tension
- B. suspension
- C. discharge
- D. strand

The correct answer is option [B]

35. The supply of electricity to various consumers is known as \_\_\_\_\_ .

- A. transmission
- B. transporting
- C. distribution
- D. transferring

The correct answer is option [C]

36. Voltages are lowered at the consumers end of transmission system with a \_\_\_\_\_ transformer.

- A. step down
- B. step up
- C. stabilizing
- D. scale

The correct answer is option [A]

37. A radio \_\_\_\_\_ selects and amplifies transmitter signals and extracts information out of the radio waves.

- A. serial
- B. wave
- C. transmitter
- D. receiver

The correct answer is option [D]

38. Which of the following is necessary for "shut down" and maintenance of the transmission system?

- A. Meter phase
- B. Circuit breaker
- C. Transformer
- D. Voltage breaker

The correct answer is option [B]

39. For proper radiation and reception of electromagnetic waves, the aerial to be used must have the right \_\_\_\_\_ .

- A. weight
- B. shape
- C. size

D. hue

The correct answer is option [C]

40. Large sizes of \_\_\_\_\_ produce larger radiation of electromagnetic waves.

- A. feeder pillar
- B. supporting poles
- C. transmitting lines
- D. aerial conductors

The correct answer is option [D]

41. This diagram is known as a \_\_\_\_\_ dish.



- A. satellite
- B. radiation
- C. transmission
- D. reception

The correct answer is option [D]

42. \_\_\_\_\_ is a type of insulator used in an overhead line system.

- A. Porcelain
- B. Ceramic
- C. Latex
- D. Pyruvic

The correct answer is option [A]

43. A \_\_\_\_ is used for making and breaking the normal current in an electric system.

- A. circuit breaker
- B. transformer
- C. voltage regulator
- D. grid transplant

The correct answer is option [A]

44. Electrons always radiate energy in the form of \_\_\_\_\_ waves.

- A. mechanical
- B. electromagnetic
- C. earthed
- D. thermostatic

The correct answer is option [B]

45. A transmitting serial sends out radio waves into \_\_\_\_.

- A. the air
- B. vacuum
- C. space
- D. the room

The correct answer is option [C]

46. The conductor of insulated cables is composed of high conductivity \_\_\_\_ wire.

- A. zinc
- B. ceramic
- C. steel
- D. copper

The correct answer is option [D]

47. Current passed on to the components of a circuit remain without any drop only when the switch is \_\_\_\_.

- A. moved
- B. sealed
- C. opened
- D. broken

The correct answer is option [C]

48. The destination of an electrical power transmission is called \_\_\_\_ .

- A. receiving end
- B. solution point
- C. distribution point
- D. converging end

The correct answer is option [A]

## TOPIC: BUILDING

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

1. What is the name of this handtool?



- A. Chain saw
- B. Matchet
- C. spade
- D. Axe

The correct answer is option [D]

2. The \_\_\_\_ is used in setting out a building when greater accuracy is needed.

- A. telescope
- B. satellite
- C. grader
- D. theodolite

The correct answer is option [D]

3. What is the name of this mechanical equipment?





- A. Inserted orbital chain
- B. Inverted mechanical saw
- C. Tractor shovel
- D. Reciprocating chain saw

The correct answer is option [D]

4. The equipment used for lifting and loading large quantities of loose materials into trucks is called \_\_\_\_ .

- A. bulldozer
- B. tipper
- C. tractor shovel
- D. truck

The correct answer is option [C]

5. Which of the following are tools for Setting out?

- A. Shovels and spade
- B. Pegs and tape
- C. Graders and loaders
- D. Rods and glue

The correct answer is option [B]

6. \_\_\_\_\_ is applied on a cleared site in order to prevent weed growth.

- A. Herbicide
- B. Pesticide
- C. Insecticide
- D. Fungicide

The correct answer is option [A]

7. A \_\_\_\_\_ line is a line which shows where the front wall of the house should begin.

- A. foot
- B. building
- C. square
- D. concrete

The correct answer is option [B]

8. Which of these handtools is used for cutting bigger branches?



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

The correct answer is option [C]

9. \_\_\_\_\_ is NOT a professional involved in building construction.

- A. An architect
- B. A real estate agent
- C. A quantity surveyor
- D. A structural engineer

The correct answer is option [B]

10. What is the name of this mechanical equipment?



- A. Bulldozer
- B. Truck
- C. Grader
- D. Tractor shovel

The correct answer is option [C]

11. Which of the following is NOT an activity involved in site preparation?

- A. Levelling of the ground.
- B. Digging out roots and stumps.
- C. Killing of termites and their nests.
- D. Planning of building materials to be used.

The correct answer is option [D]

12. What is the name of this handtool?



- A. Matchet
- B. Chain saw
- C. Spade
- D. Sickle

The correct answer is option [B]

13. What is the name of this equipment?



- A. Wooden square
- B. Steel square
- C. T-square
- D. Set square

The correct answer is option [B]

14. What is the name of this equipment?



- A. Camera
- B. Telescope
- C. Theodolite
- D. Microscope

The correct answer is option [C]

15. The \_\_\_\_\_ plan shows the drainage and sewage network of a building structure.

- A. plumbing
- B. electrical
- C. floor
- D. underground

The correct answer is option [A]

16. The \_\_\_\_\_ of a building structure shows how it would look when cut through from the roof to the foundation.

- A. elevation
- B. sections
- C. foundation
- D. schedules

The correct answer is option [B]

17. The pay loader is an example of \_\_\_\_\_ used in site preparation.

- A. handtool
- B. automated machine
- C. computerized tool
- D. mechanical plant

The correct answer is option [D]

18. A dumpy level is a surveyor's instrument used in establishing the levelness of \_\_\_\_\_.

- A. ground surface
- B. water level
- C. underground fittings
- D. aerial lines

The correct answer is option [A]

19. What is the name of this handtool?



- A. Spade
- B. Shovel
- C. Sickle
- D. Rake

The correct answer is option [B]

20. Setting out is done with the aid of pegs, lines and \_\_\_\_\_.



- A. tape
- B. fork
- C. hose

D. chalk

The correct answer is option [A]

21. Which of these handtools is used for cutting grasses and shrubs?

A. 3

B. 1

C. 4

D. 2

The correct answer is option [A]

22. In planning a building construction, the first professional to consult is the \_\_\_\_\_.

A. estate manager

B. quantity surveyor

C. architect

D. construction company

The correct answer is option [C]

23. The \_\_\_\_\_ of a building structure shows its view from the four cardinal points.

A. sections

B. schedules

C. elevation

D. foundation

The correct answer is option [C]

24. What is the name of this mechanical equipment?



- A. Bulldozer
- B. Tipper
- C. Loader
- D. Trailer

The correct answer is option [A]

25. The process of establishing on the ground, the foundation plan of any building is called \_\_\_\_.

- A. setting out
- B. accuracy control
- C. floor plan
- D. foundation plan

The correct answer is option [A]

26. What is the use of a spade in site preparation?

- A. Cutting logs of wood
- B. Shaping of blocks
- C. Digging loose earth
- D. Breaking solid rocks

The correct answer is option [C]



27. Herbicides are chemicals that are able to stop the growth of \_\_\_\_ when applied on a site.

- A. flowers
- B. shrubs
- C. weeds
- D. trees

The correct answer is option [C]

28. What is the name of this handtool?



- A. Axe
- B. Matchet
- C. chain saw
- D. Spade

The correct answer is option [B]

29. The \_\_\_\_ is used for felling trees.

- A. chain saw
- B. matchet
- C. hammer
- D. hoe

The correct answer is option [A]

30. Buildings can be rendered free from termites by using \_\_\_\_\_ .

- A. deldrin dust

- B. round-up
- C. barricade
- D. furlsam 99

The correct answer is option [A]

31. \_\_\_\_\_ are used to make sure of correct setting out of walls and foundation footings.

- A. Tapes
- B. Poles
- C. Profiles
- D. Stakes

The correct answer is option [C]

32. The square ends of a building are Set out using the ratio \_\_\_\_\_, based on the \_\_\_\_\_ theorem.

- A. 3:2:5, carnot's
- B. 2:3:4, adiabatic
- C. 3:4:5, pythagoras
- D. 4:5:6, basu's

The correct answer is option [C]

33. \_\_\_\_\_ is used for lifting and throwing loose materials into another position.

- A. Spade
- B. Axe
- C. Matchet
- D. Shovel

The correct answer is option [D]

34. The \_\_\_\_ plan of a building structure gives a layout of the electrical fittings and wiring of building.

- A. plumbing
- B. decoration
- C. setting
- D. electrical

The correct answer is option [D]

35. What is the use of this tool in building construction?



- A. Levelling out
- B. Electrical fitting
- C. Setting out
- D. Blazing off

The correct answer is option [C]

36. The \_\_\_\_ plan shows the layout, dimension and location of building parts.

- A. foundation
- B. floor
- C. plumbing
- D. electrical

The correct answer is option [B]

37. One of the methods employed in "setting out" is the use of \_\_\_\_\_ .

- A. profile boards
- B. metal chips
- C. screw gauge
- D. steel square

The correct answer is option [D]

38. The \_\_\_\_\_ is used to create a flat surface during site preparation.

- A. trailer
- B. loader
- C. shovel
- D. grader

The correct answer is option [D]

39. Which of these handtools is used for felling trees?



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

The correct answer is option [D]

40. The bulldozer is used to dig the topsoil to a depth between \_\_\_\_\_ .

- A. 100-200mm
- B. 150-300mm
- C. 300-700mm

D. 50-150mm

The correct answer is option [B]

41. Which of these handtools is used for digging about the surface of the ground?



A. 3

B. 2

C. 4

D. 1

The correct answer is option [B]

42. The \_\_\_\_ is used for pulling down buildings and heavy trees.

A. trailer

B. bulldozer

C. tractor

D. pay loader

The correct answer is option [B]

43. What is the name of this mechanical equipment?



- A. Bulldozer
- B. Pay loader
- C. Tipper
- D. Truck

The correct answer is option [B]

44. What is the name of this handtool?



- A. Spade
- B. Shovel
- C. Sickle
- D. Rake

The correct answer is option [A]

## TOPIC: DRAWING PRACTICE

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

1. What is the difference between a point and a line?

- A. A point has position and length while a line has only position.
- B. A line has thickness while a point has length.
- C. A line has position and thickness while a point has only length.
- D. A line has position and length while a point has only position.

The correct answer is option [D]

2. What is the first step to take in constructing a rhombus given its side and a diagonal?

- A. Draw a line and mark off AB equal to the given diagonal.
- B. Draw a square and construct a diagonal.
- C. Draw a line and mark off AB longer than the given diagonal.
- D. Draw a rectangle and mark out a diagonal shorter than the given diagonal.

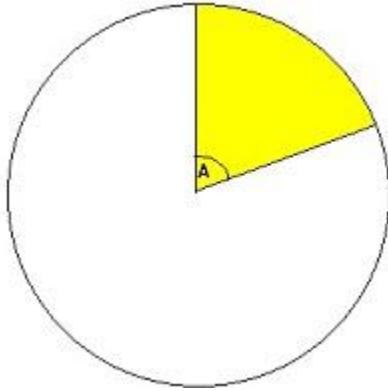
The correct answer is option [A]

3. In technical drawing, vertical lines are drawn with a set square placed on the \_\_\_\_\_.

- A. drawing board
- B. T-square
- C. set square
- D. metric rule

The correct answer is option [B]

4. The shaded part of the circle represents a \_\_\_\_.



- A. segment
- B. quadrant
- C. chord
- D. sector

The correct answer is option [D]

5. A quadrilateral has \_\_\_\_ angles.

- A. 2
- B. 3
- C. 4
- D. 5

The correct answer is option [C]

6. What is the first step to take in constructing a rhomboid given a diagonal and two sides?

- A. Draw a line and mark off AB longer than the given diagonal.
- B. Draw AB equal to the given diagonal.
- C. Join AD, DB, BC, and CA to obtain the required rhomboid ADBC.
- D. Bisect AB at C and draw a circle with AB as diameter.

The correct answer is option [B]



7. What is a complementary angle?

- A. When the sum of two angles is equal to  $180^\circ$ .
- B. When the difference between two angles is equal to  $90^\circ$ .
- C. When the sum of two angles is equal to  $90^\circ$ .
- D. When the difference between two angles is equal to  $180^\circ$ .

The correct answer is option [C]

8. The point at which the vertical angle is formed is termed \_\_\_\_\_ .

- A. the nape of the triangle
- B. the apex of the triangle
- C. the vertex of the triangle
- D. the peak of the triangle

The correct answer is option [C]

9. A heptagon is a polygon with \_\_\_\_\_ sides.

- A. 7
- B. 6
- C. 5
- D. 4

The correct answer is option [A]

10. A right angled triangle is one which has at least \_\_\_\_\_ of its angles at right angle.

- A. two
- B. one
- C. none
- D. all

The correct answer is option [B]

11. \_\_\_\_\_ is a straight line drawn through the centre, meeting the circumference at both ends.

- A. Radius
- B. Diameter
- C. Segment
- D. Arc

The correct answer is option [B]

12. The first step to take in constructing an angle of  $22\frac{1}{2}^\circ$  is to \_\_\_\_\_ .

- A. construct angle  $60^\circ$
- B. construct angle  $90^\circ$
- C. construct angle  $180^\circ$
- D. construct angle  $45^\circ$

The correct answer is option [D]

13. \_\_\_\_\_ are used at the end of dimension lines.

- A. Pointing finger
- B. Spearheads
- C. Arrowheads
- D. Crossheads

The correct answer is option [C]

14. A point can be made on paper by use of \_\_\_\_\_ .

- A. sharp pencil or needle
- B. blunt pencil or knife
- C. sharp pencil or thick marker
- D. blunt pencil or needle

The correct answer is option [C]

15. Something which joins two points is called a \_\_\_\_\_ .

- A. point
- B. line
- C. stroke
- D. mark

The correct answer is option [B]

16. In technical drawing, all horizontal lines are drawn with the aid of a \_\_\_\_\_ .

- A. metric rule
- B. set square
- C. T-square
- D. protractor

The correct answer is option [C]

17. \_\_\_\_\_ is the line drawn from the centre of a circle to the tangent points forming an angle of  $90^\circ$ .

- A. Arc
- B. Chord
- C. Diameter
- D. Normal

The correct answer is option [D]

18. The two angles at the ends of the base are called \_\_\_\_\_.

- A. front angles
- B. side angles
- C. top angles
- D. base angles

The correct answer is option [D]

19. An angle of  $180^\circ$  is called \_\_\_\_\_.

- A. a straight line
- B. an obtuse angle
- C. an acute angle
- D. a reflex angle

The correct answer is option [A]

20. Which of the following is NOT a type of angle?

- A. Obtuse angle
- B. Reflex angle
- C. Right angle
- D. Spatial angle

The correct answer is option [D]

21. \_\_\_\_\_ are used to show dimension lines, projection lines and construction lines.

- A. Thin discontinuous lines
- B. Thick continuous lines
- C. Thick long chains
- D. Thin continuous lines

The correct answer is option [D]

22. In a quadrilateral, any two opposite angular points may be joined by a straight line termed \_\_\_\_\_.

- A. the tangent
- B. the chord
- C. the radius
- D. the diagonal

The correct answer is option [D]

23. Two lines are said to be parallel if they are \_\_\_\_\_.

- A. same distance and can meet at regular intervals
- B. distances apart and can still meet
- C. same length and can meet at a point
- D. always the same distance apart and cannot meet

The correct answer is option [D]

24. A \_\_\_\_\_ angle is greater than  $180^\circ$  but less than  $360^\circ$ .

- A. acute
- B. reflex
- C. right
- D. obtuse

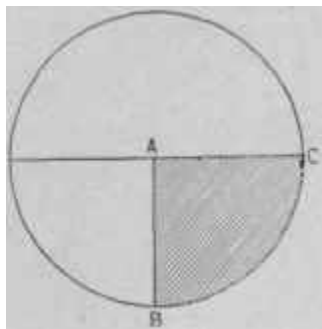
The correct answer is option [B]

25. A triangle has \_\_\_\_\_ sides.

- A. 5
- B. 2
- C. 3
- D. 7

The correct answer is option [C]

26. The shaded portion in the circle represents a \_\_\_\_\_.



- A. segment
- B. sector
- C. quadrant
- D. chord

The correct answer is option [C]

27. A \_\_\_\_ angle is one which is greater than  $90^\circ$  but less than  $180^\circ$ .

- A. right
- B. reflex
- C. obtuse
- D. acute

The correct answer is option [C]

28. A \_\_\_\_ is part of a circle bounded by an arc and a chord.

- A. segment
- B. sector
- C. tangent
- D. diameter

The correct answer is option [A]

29. An angle of  $150^\circ$  is a \_\_\_\_ angle.

- A. obtuse
- B. reflex
- C. straight
- D. acute

The correct answer is option [A]

30. A right angle is angle at \_\_\_\_\_.

- A.  $90^\circ$
- B.  $45^\circ$
- C.  $180^\circ$
- D.  $360^\circ$

The correct answer is option [A]

31. What is an angle?

- A. Two straight lines that can never meet.
- B. The extension of two parallel straight lines .
- C. The inclination to each other of two straight lines.
- D. When the sum of two parallel straight lines is equal to 90

The correct answer is option [C]

32. An obtuse angle is greater than \_\_\_\_\_ but less than \_\_\_\_\_.

- A.  $45^\circ$ ,  $90^\circ$
- B.  $90^\circ$ ,  $180^\circ$
- C.  $180^\circ$ ,  $360^\circ$
- D.  $180^\circ$ ,  $270^\circ$

The correct answer is option [B]

33. Units of measurement of an area include \_\_\_\_\_.

- (i) millimetre
- (ii) centimetre
- (iii) percentage
- (iv) metre
- (v) Ohms

- A. (i), (ii) and (iv)

- B. (i), (ii) and (v)
- C. (ii), (iii) and (iv)
- D. (iii), (iv) and (v)

The correct answer is option [A]

34. A polygon with eight sides is called \_\_\_\_\_.

- A. a heptagon
- B. an octagon
- C. a nonagon
- D. a hexagon

The correct answer is option [B]

35. When two straight lines meet at a point, \_\_\_\_\_ is formed.

- A. a shape
- B. a box
- C. an angle
- D. a platform

The correct answer is option [C]

36. What is a triangle?

- A. A plane figure contained by three straight lines.
- B. An irregular figure of multiple lines.
- C. A plane figure containing four thick lines.
- D. A plain figure containing three curved lines.

The correct answer is option [A]

37. \_\_\_\_\_ is the unit of measurement of angles.

- A. Ohm



- B. Centigrade
- C. Radian
- D. Degree

The correct answer is option [D]

38. The side of the triangle opposite the right angle is called \_\_\_\_\_ .

- A. opposite
- B. tangent
- C. hypotenuse
- D. base

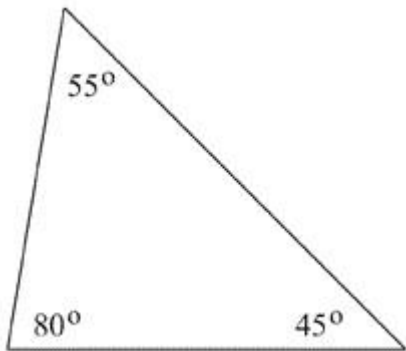
The correct answer is option [C]

39. Which of the following best defines an Area?

- A. The amount of angle covered within the boundary of a figure.
- B. The amount of space enclosed within the boundary of a figure.
- C. The quality of space outside the marked regions of a figure.
- D. The amount of space enclosed outside the boundary of a figure.

The correct answer is option [B]

40. The triangle is a \_\_\_\_\_ triangle.



- A. equilateral

- B. isosceles
- C. scalene
- D. right angle

The correct answer is option [C]

41. An angle of  $130^\circ$  is \_\_\_\_\_ .

- A. a reflex angle
- B. a right angle
- C. a straight angle
- D. an obtuse angle

The correct answer is option [D]

42. The angle opposite the base is called \_\_\_\_\_ angle.

- A. vertex
- B. vertical
- C. vertibral
- D. vintex

The correct answer is option [B]

43. What is a supplementary angle?

- A. When the sum of two angles is equal to  $90^\circ$ .
- B. When the difference between two angles is equal to  $180^\circ$ .
- C. When the difference between two angles is equal to  $90^\circ$ .
- D. When the sum of two angles is equal to  $180^\circ$ .

The correct answer is option [D]

44. The sum of three angles of any triangle is \_\_\_\_\_.

- A.  $180^\circ$

- B.  $90^\circ$
- C.  $360^\circ$
- D.  $270^\circ$

The correct answer is option [A]

45. A parallelogram may be all except \_\_\_\_\_.

- A. triangle
- B. rectangle
- C. rhomboid
- D. square

The correct answer is option [A]

46. A \_\_\_\_\_ is a polygon with five sides.

- A. hexagon
- B. heptagon
- C. pentagon
- D. parallelogram

The correct answer is option [C]

47. Thick continuous lines are used to show \_\_\_\_\_.

- A. short break lines
- B. visible outlines and edges
- C. ending dimension lines
- D. long break lines

The correct answer is option [B]

48. A \_\_\_\_\_ is part of a circle bounded by two radius and an arc.

- A. segment

- B. sector
- C. tangent
- D. diameter

The correct answer is option [B]

49. A straight line is defined as \_\_\_\_\_ .

- A. the longest distance between two points
- B. the shortest distance between two points
- C. the shortest distance between angles
- D. the longest distance between two lines

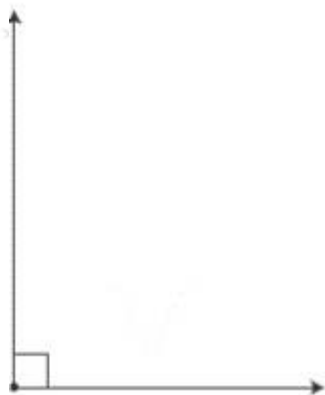
The correct answer is option [B]

50. A \_\_\_\_ angle is one which is less than  $90^\circ$ .

- A. right
- B. acute
- C. reflex
- D. obtuse

The correct answer is option [B]

51. The diagram represents a/an \_\_\_\_\_ angle.



- A. acute
- B. right
- C. reflex
- D. obtuse

The correct answer is option [B]

52. The angle below is known as angle \_\_\_\_\_.

- A.  $300^\circ$
- B.  $180^\circ$
- C.  $360^\circ$
- D.  $270^\circ$

The correct answer is option [C]

53. Theorems used in constructing figures of equal area does NOT include \_\_\_\_\_.

- A. triangles on the same base and between the same parallels are equal in area
- B. parallelograms on different base and between same parallels are equal in width
- C. triangles on equal bases and between the same parallels are equal in area
- D. parallelograms on the same base and between the same parallels are equal

The correct answer is option [B]

54. A \_\_\_\_ is formed when two straight lines meet at a point.

- A. line
- B. angle
- C. curve
- D. circle

The correct answer is option [B]

55. Which of the following is NOT a point to be considered when drawing a horizontal line with the T-square?

- A. The T-square should never be used to draw a line in any other position.
- B. The head of the T-square must slide firmly on the left hand side edge of the drawing board.
- C. The T-square must be used in drawing all horizontal lines.
- D. The T-square can be used in making angles of  $30^\circ$ ,  $60^\circ$  and  $90^\circ$

The correct answer is option [D]

56. An angle of  $360^\circ$  is known as a \_\_\_\_\_ .

- A. rotation
- B. revolution
- C. resolution
- D. reflection

The correct answer is option [B]

57. The altitude or height of a triangle is the \_\_\_\_\_ .

- A. paralleled distance from the base to two sides of the triangle
- B. perpendicular distance from the base to two sides of the triangle
- C. perpendicular height from the base to three sides of the triangle
- D. perpendicular distance from the vertex to the base of the triangle

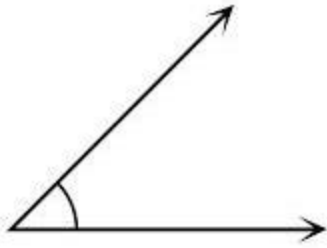
The correct answer is option [D]

58. A polygon with ten sides is called \_\_\_\_\_ .

- A. a heptagon
- B. an octagon
- C. a nonagon
- D. a decagon

The correct answer is option [D]

59. The diagram below represents a/an \_\_\_\_\_ angle.



- A. acute
- B. right
- C. reflex
- D. obtuse

The correct answer is option [A]

60. We use \_\_\_\_\_ for measuring angles.

- A. protractor
- B. compass
- C. T-square
- D. divider

The correct answer is option [A]

61. Thick continuous wavy or irregular lines are indicative of \_\_\_\_\_ .

- A. short break lines and boundary lines
- B. ending dimension lines
- C. long break lines
- D. short chain lines

The correct answer is option [A]

62. A parallelogram with all sides equal with each angle at right angle is called a \_\_\_\_\_.

- A. rhomboid
- B. right angle
- C. square
- D. rectangle

The correct answer is option [C]

63. The \_\_\_\_\_angled triangle is one which has each of its three angles less than a right angle.

- A. right
- B. obtuse
- C. reflex
- D. acute

The correct answer is option [D]

64. A triangle in which only two sides are equal in length is called \_\_\_\_\_ .

- A. equilateral triangle
- B. isosceles triangle
- C. scalene triangle
- D. base triangle

The correct answer is option [B]

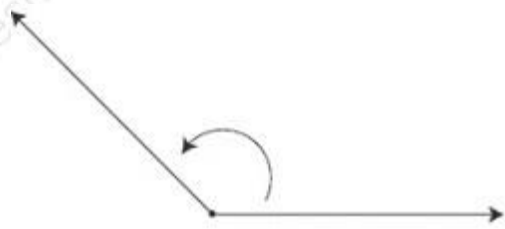
65. \_\_\_\_\_ is a plane figure bounded by four straight sides.

- A. A quadrilateral
- B. A triangle
- C. A circle
- D. A cuboid

The correct answer is option [A]



66. This angle is called a/an \_\_\_\_\_ angle.



- A. acute
- B. right
- C. reflex
- D. obtuse

The correct answer is option [D]

67. A triangle with all three sides unequal is called \_\_\_\_\_.

- A. equilateral triangle
- B. isosceles triangle
- C. scalene triangle
- D. base triangle

The correct answer is option [C]

68. A \_\_\_\_\_ is any straight line drawn across the circle, meeting the circumference at both ends.

- A. diameter
- B. radius
- C. arc
- D. chord

The correct answer is option [D]

69. One side of the triangle usually identified as the most nearly horizontal is known as the \_\_\_\_\_ .

- A. back
- B. base
- C. top
- D. side

The correct answer is option [B]

70. \_\_\_\_\_ angled triangle is one which has one of its angles greater than a right angle.

- A. An obtuse
- B. A right
- C. An acute
- D. A reflex

The correct answer is option [A]

71. A normal usually forms an angle of \_\_\_\_\_ with the tangent.

- A.  $90^\circ$
- B.  $180^\circ$
- C.  $45^\circ$
- D.  $270^\circ$

The correct answer is option [A]

72. A parallelogram which has its opposite sides equal and each angle at right angle is called \_\_\_\_\_ .

- A. a square
- B. a rectangle
- C. a rhomboid
- D. a cube

The correct answer is option [B]

73. A reflex angle is greater than \_\_\_\_ but less than \_\_\_\_ .

- A.  $180^\circ$ ,  $270^\circ$
- B.  $90^\circ$ ,  $180^\circ$
- C.  $180^\circ$ ,  $360^\circ$
- D.  $45^\circ$ ,  $90^\circ$

The correct answer is option [C]

74. \_\_\_\_ is a straight line touching the circumference at one point only and is perpendicular to the circumference of the circle.

- A. Diameter
- B. Sector
- C. Tangent
- D. Radius

The correct answer is option [C]

75. The three angles of an equilateral triangle are all equal with each being \_\_\_\_ .

- A.  $45^\circ$
- B.  $90^\circ$
- C.  $180^\circ$
- D.  $60^\circ$

The correct answer is option [D]

76. An angle of  $270^\circ$  is a \_\_\_\_ angle.

- A. right
- B. reflex
- C. obtuse
- D. acute

The correct answer is option [B]

77. A \_\_\_\_ is a parallelogram formed from a square so that no angle is a right angle.

- A. rectangle
- B. rhomboid
- C. square
- D. rhombus

The correct answer is option [D]

78. Given angles are bisected by the construction of \_\_\_\_\_ .

- A. circles
- B. arcs
- C. radius
- D. tangents

The correct answer is option [B]

79. This diagram is called \_\_\_\_\_ .



- A. a straight angle
- B. a right angle
- C. an acute angle
- D. a reflex angle

The correct answer is option [A]

80. A \_\_\_\_ is a straight line drawn from the centre to the circumference of the circle.

- A. diameter
- B. segment
- C. radius

D. chord

The correct answer is option [C]

81. An area is measured in \_\_\_\_\_ .

A. degrees

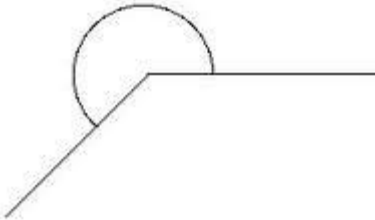
B. percentage

C. radian

D. square units

The correct answer is option [D]

82. The diagram represents a/an \_\_\_\_\_ angle.



A. acute

B. right

C. reflex

D. obtuse

The correct answer is option [C]

83. \_\_\_\_\_ is defined as the shortest distance between two points.

A. A straight line

B. A curved line

C. An angle

D. A parallel line

The correct answer is option [A]

84. What is the first step to take in constructing a triangle given the length of the three sides?

- A. Draw a horizontal line and mark off the base of the triangle AB.
- B. Draw a vertical line and mark off the vertex of the triangle.
- C. Draw a horizontal line and mark off the vertex of the triangle ABC.
- D. Draw a vertical line and mark off angle 90°.

The correct answer is option [A]

85. The first thing to do when bisecting a given line is \_\_\_\_ .

- A. draw the given line AB
- B. draw arcs above and below the given line
- C. intersect the given line
- D. duplicate the given line

The correct answer is option [A]

86. A \_\_\_\_ is a parallelogram formed from a rectangle so that no angle is a right angle.

- A. rhomboid
- B. rhombus
- C. rectangle
- D. square

The correct answer is option [A]

87. In technical drawing, a point is usually represented by \_\_\_\_ .

- A. a cross or bow
- B. a line or arrow
- C. a cross or dot
- D. an arrow or finger

The correct answer is option [C]

88. A circle is a plane figure bounded by a curved line called a \_\_\_\_\_ .

- A. semi-circle
- B. circumference
- C. arch
- D. sector

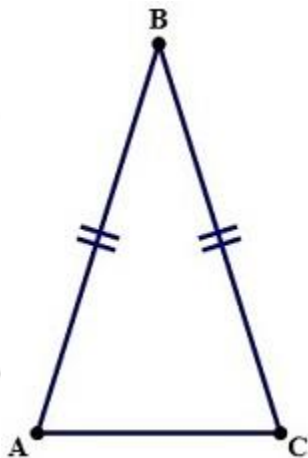
The correct answer is option [B]

89. A quadrilateral with opposite sides, equal and parallel is called \_\_\_\_\_ .

- A. a bilateral
- B. a parallelogram
- C. a rectangle
- D. a rhombus

The correct answer is option [B]

90. The triangle below is a \_\_\_\_ triangle.



- A. equilateral
- B. right angle
- C. scalene
- D. isosceles

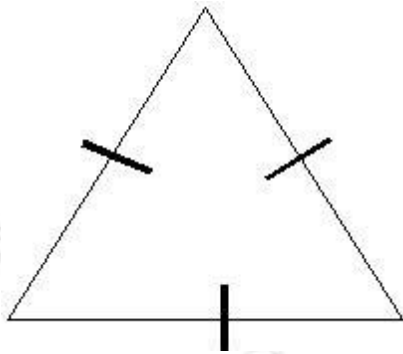
The correct answer is option [D]

91. Another name for an area is \_\_\_\_\_ .

- A. volume
- B. space
- C. grid
- D. square

The correct answer is option [B]

92. The triangle is a/an \_\_\_\_\_ triangle.



- A. scalene
- B. equilateral
- C. isosceles
- D. right angle

The correct answer is option [B]

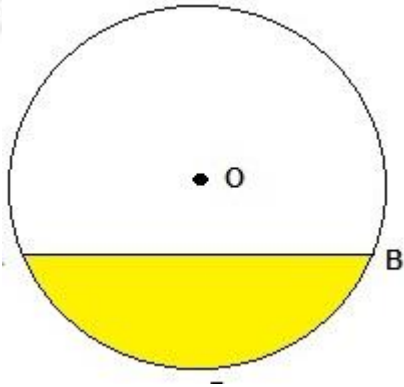
93. Parts of a circle does NOT include \_\_\_\_\_ .

- A. hypotenuse
- B. chord
- C. radius
- D. diameter

The correct answer is option [A]



94. The shaded part of the circle represents a \_\_\_\_\_.



- A. segment
- B. quadrant
- C. chord
- D. sector

The correct answer is option [A]

95. A polygon with nine sides is called \_\_\_\_\_.

- A. a heptagon
- B. an octagon
- C. a nonagon
- D. a decagon

The correct answer is option [C]

96. A hexagon is a polygon with \_\_\_\_\_ sides.

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

The correct answer is option [D]

97. A triangle in which all three sides are equal in length is called \_\_\_\_\_ .

- A. equilateral triangle
- B. scalene triangle
- C. isosceles triangle
- D. base triangle

The correct answer is option [A]

98. A \_\_\_\_\_ is something which has position and an extremely small magnitude that is barely visible.

- A. point
- B. line
- C. stroke
- D. symbol

The correct answer is option [A]

## TOPIC: ENERGY AND POWER

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

1. A \_\_\_\_\_ controls the extent to which the stainless steel plates are heated.

- A. bimetallic thermostat
- B. mica plate
- C. nichrome element
- D. asbestos pad

The correct answer is option [A]

2. The refrigerant is a fluid which can easily \_\_\_\_\_.

- A. appear and disappear
- B. contract and dilate
- C. evaporate and condense
- D. sublimate and solidify

The correct answer is option [C]

3. Charcoal is an incompletely burnt wood which is very high in \_\_\_\_\_ content.

- A. carbon
- B. sulphur
- C. hydrogen
- D. nitrogen

The correct answer is option [A]

4. Which of the following is part of an electric iron?

- A. Compressor
- B. Synthetic thermoplast
- C. Bimetallic thermostat

D. Transparent shield

The correct answer is option [C]

5. Burning is a combustion process in which \_\_\_\_\_ is converted to heat energy.

- A. light
- B. solar
- C. mechanical
- D. chemical

The correct answer is option [D]

6. The \_\_\_\_\_ conducts heat from the nichrome element to the lower steel plate during ironing.

- A. asbestos pad
- B. nichrome element
- C. mica plate
- D. steel plate

The correct answer is option [C]

7. The charcoal pressing iron works by the release of \_\_\_\_\_ energy which is used for pressing clothes.

- A. electrical
- B. heat
- C. light
- D. mechanical

The correct answer is option [B]

8. The section in which the refrigerant changes from the gaseous to the liquid state is called the \_\_\_\_\_.

- A. condenser

- B. distillator
- C. evaporator
- D. compressor

The correct answer is option [A]

9. An electric kettle converts \_\_\_\_\_.

- A. electric energy to heat energy
- B. electric energy to chemical energy
- C. solar energy to electric energy
- D. chemical energy to electrical energy

The correct answer is option [A]

10. What is the name of this item?



- A. Electric rod
- B. Water heater
- C. Electric ring
- D. Electric kettle

The correct answer is option [B]

11. The direction of heat flow is always from \_\_\_\_\_ to \_\_\_\_\_ substances.

- A. colder, warmer
- B. warmer, hotter

- C. hotter, colder
- D. gaseous, liquid

The correct answer is option [C]

12. Kerosene flows from the kerosene cooker through the \_\_\_\_\_ .

- A. rope
- B. wick
- C. pipe
- D. hose

The correct answer is option [B]

13. This type of water heater is called the \_\_\_\_\_ type.



- A. free outlet
- B. cistern
- C. pressure
- D. furnace

The correct answer is option [A]

14. This item is called \_\_\_\_ .



- A. charcoal pressing iron
- B. electric iron
- C. automatic iron
- D. automated iron

The correct answer is option [B]

15. Which of the following is a common refrigerant?

- A. Chlorine
- B. Ammonia
- C. Carbon monoxide
- D. Flourine

The correct answer is option [B]

16. Which of the following is a common refrigerant?

- A. Sulphur
- B. Ammonia
- C. Camphor
- D. Urea

The correct answer is option [B]

17. During combustion process, \_\_\_\_ is released.

- A. heat
- B. light
- C. gas
- D. moisture

The correct answer is option [A]

18. Which of the following is NOT a function of the compressor?

- A. Raising the pressure of the refrigerant gas.
- B. Circulating the refrigerant.
- C. Creating a balance between the evaporator and condenser
- D. Maintaining temperature of cooled space

The correct answer is option [D]

19. \_\_\_\_\_ is an essential part of a refrigeration system.

- A. Distillator
- B. Evaporator
- C. Sublimate
- D. Assimilator

The correct answer is option [B]

20. Parts of the kerosene cooker are the stand, the glass container and the \_\_\_\_\_ .

- A. pierced handle
- B. airtight cylinders
- C. perforated cylinders
- D. punctured base

The correct answer is option [C]



21. This type of water heater is called the \_\_\_\_ type.



- A. freoulet
- B. pressure
- C. cistern
- D. furnace

The correct answer is option [B]

22. What is the function of the controls in a refrigeration system?

- A. Maintaining a proper rate of cooling.
- B. Raising the pressure of the refrigerant gas.
- C. Circulating the refrigerant.
- D. Maintaining the temperature of the coiling unit.

The correct answer is option [A]

23. A \_\_\_\_\_ is any machine which uses an electric motor as its prime mover to produce granulated substances.

- A. tractor
- B. mixer
- C. cooker
- D. grinder

The correct answer is option [D]

24. What insulates the steel plates from electricity during ironing?

- A. Nichrome element
- B. Mica plate
- C. Metallic strip
- D. Bimetallic thermostat

The correct answer is option [B]

25. The refrigerant changes into \_\_\_ state when it condenses.

- A. solid
- B. crystalline
- C. gaseous
- D. liquid

The correct answer is option [D]

26. In the process of burning, oxygen from the air combines with hydrocarbons to form \_\_\_\_\_ and \_\_\_\_\_ .

- A. carbon (ii) oxide, heat
- B. oxygen , nitrogen
- C. carbon (iv) oxide, steam
- D. sodium chloride, water

The correct answer is option [C]

27. Fluids used as refrigerant should be \_\_\_\_\_ .

- A. thick
- B. contaminated
- C. non toxic
- D. pure

The correct answer is option [C]

28. The gas lamp converts \_\_\_\_\_ energy into heat energy

- A. solar
- B. mechanical
- C. chemical
- D. electrical

The correct answer is option [C]

29. Which of the following is an induction motor of the squirrel-cage rotor type?

- A. Electric fan
- B. Electric rotor
- C. Electric mower
- D. Gas cooker

The correct answer is option [A]

30. The part labelled C is called \_\_\_\_\_ .

- A. gas cylinder
- B. gas chamber
- C. gas container
- D. lamp stand

The correct answer is option [A]

31. Wood and charcoal are known as \_\_\_\_ fuels.

- A. gaseous
- B. solid
- C. liquid
- D. crystalline

The correct answer is option [B]

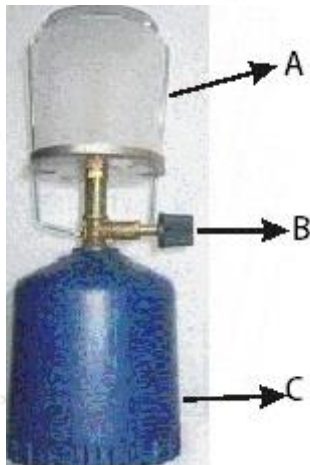
32. What is the name of this equipment?



- A. Charcoal smoothing iron
- B. Wooden iron
- C. Charcoal pressing iron
- D. Electric iron

The correct answer is option [C]

33. The part labelled A is called \_\_\_\_\_ .



- A. gas holder
- B. lamp cover
- C. transparent shield
- D. lamp shade

The correct answer is option [C]

34. \_\_\_\_\_ is a liquefied gas.

- A. Kerosene
- B. Butane
- C. Methane
- D. Camphor

The correct answer is option [A]

35. The blade of a fan is tightly fitted with a screw to prevent it from falling during \_\_\_\_\_ .

- A. action
- B. standing
- C. motion
- D. waving

The correct answer is option [C]

36. The heat gained by the refrigerant changes it into \_\_\_\_\_.

- A. crystal
- B. air
- C. vapour
- D. liquid

The correct answer is option [C]

37. Types of water heater are the free outlet, pressure type and \_\_\_\_\_ .

- A. valve type
- B. chimney type
- C. cistern type
- D. gas type

The correct answer is option [C]

38. During ironing, clothes are smoothened by the combined efforts of \_\_\_\_\_ and \_\_\_\_\_ .

- A. metal strip, nichrome element
- B. bimetallic thermostart, element
- C. metallic thermoplast, element
- D. stainless steel plate, element

The correct answer is option [D]

39. On gaining heat, the refrigerant \_\_\_\_\_ inside the coil.

- A. diffuses
- B. evaporates
- C. condenses
- D. spreads

The correct answer is option [B]

40. Solid fuels are made up of compounds of carbon, nitrogen and \_\_\_\_\_ .

- A. hydrogen
- B. oxygen
- C. flourine
- D. sulphur

The correct answer is option [D]

41. A change of state from the \_\_\_\_\_ is done in the condenser section.

- A. gas to liquid
- B. liquid to gas
- C. liquid to solid
- D. gas to solid

The correct answer is option [A]

42. The refrigeration system consist of the condenser, evaporator and \_\_\_\_\_ .

- A. compressant
- B. steel plates
- C. compressor
- D. coils

The correct answer is option [C]

43. The refrigerant enters the space to be refrigerated as a low temperature \_\_\_\_\_ .

- A. liquid
- B. vapour
- C. steam
- D. crystal

The correct answer is option [A]

44. What is the name of this item?



- A. Electric keg
- B. Electric kettle
- C. Pressure kettle
- D. Automated kettle

The correct answer is option [B]

45. What is the name of this item?



- A. Electric kettle
- B. Pressure cooker
- C. Electric cooker
- D. Gas cooker

The correct answer is option [C]

46. Cold water is heated by \_\_\_\_\_ .

- A. conduction
- B. insulation
- C. contraction
- D. convention

The correct answer is option [A]

47. The refrigerator is made up of the cabinet, the refrigeration system and the \_\_\_\_\_ .

- A. wiring system
- B. electric circuit
- C. mechanical system
- D. coiling circuit

The correct answer is option [B]



48. This diagram shows a \_\_\_\_\_ attached to a tyre.



- A. resin
- B. tube
- C. dynamo
- D. bottle

The correct answer is option [C]

49. A \_\_\_\_\_ heats the metal disc to cooking temperature in a gas cooker.

- A. nichrome element
- B. steel plate
- C. mica plate
- D. bunsen burner

The correct answer is option [A]

50. \_\_\_\_\_ is an example of a gaseous fuel.

- A. camphor
- B. mercury
- C. butane
- D. sulphur

The correct answer is option [C]

51. The electric kettle is made up of a chrome plated aluminium body and a \_\_\_\_\_ .

- A. nichrome element
- B. stainless steel plate
- C. mica plate
- D. gas cylinder

The correct answer is option [A]

52. The charcoal pressing iron is made up of a wooden handle and a heavy \_\_\_\_\_ container.

- A. metal
- B. ceramic
- C. steel
- D. glass

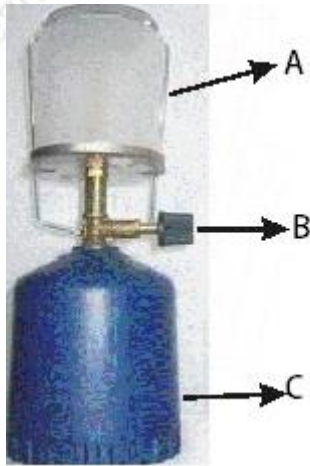
The correct answer is option [C]

53. The nichrome elements of the electric cooker are covered in magnesia in order to \_\_\_\_\_ .

- A. prevent them from breaking
- B. help them last longer
- C. keep them airtight
- D. insulate them from the steel plates

The correct answer is option [D]

54. The part labelled B is called \_\_\_\_\_ .



- A. light turner
- B. remote controller
- C. regulator
- D. control valve

The correct answer is option [D]

55. The temperature range for ironing is \_\_\_\_\_.

- A. 121°C-204°C
- B. 200°C-500°C
- C. 50°C-100°C
- D. 800°C-1000°C

The correct answer is option [A]

56. A hermetic type compressor is one that is \_\_\_\_ .

- A. open
- B. sealed
- C. wrapped
- D. full

The correct answer is option [B]

57. The tube of the electric kettle must be watertight in order to \_\_\_\_\_ .

- A. facilitate the boiling process
- B. remove unwanted particles
- C. prevent air leakage into the tube
- D. prevent water leakage into the element

The correct answer is option [D]

58. A gas lamp is made up of a gas cylinder, a pipe and a \_\_\_\_\_ .

- A. wooden cover
- B. glass base
- C. ceramic base
- D. spherical glass

The correct answer is option [D]

59. Gaseous fuel is usually referred to as \_\_\_\_\_ .

- A. hydrocarbon
- B. fossil fuels
- C. natural gas
- D. biocarbon

The correct answer is option [A]

60. This type of water heater is called \_\_\_\_\_ .



- A. the transparent type
- B. the free outlet type
- C. the pressure type
- D. the cistern type

The correct answer is option [D]

61. The heating element in an electric iron withstands the great heat produced due to its \_\_\_\_\_ .

- A. low boiling point
- B. high melting point
- C. low melting point
- D. high boiling point

The correct answer is option [B]

62. Cylinders in the kerosene cooker are perforated so as to allow in \_\_\_\_\_ during burning.

- A. steam
- B. fire
- C. heat
- D. air

The correct answer is option [D]

63. The evaporator is also known as the \_\_\_\_\_ coils.

- A. cold
- B. steaming
- C. heating
- D. cooling

The correct answer is option [D]

64. The following appliances convert electrical energy into heat energy except \_\_\_\_\_.

- A. water heater
- B. light bulb
- C. gas lamp
- D. microwave

The correct answer is option [C]

65. The gas lamp uses \_\_\_\_\_ in its cylinder for burning.

- A. butane
- B. ethylene
- C. sulphur
- D. butanol

The correct answer is option [A]

66. Qualities of a good heating element is that the materials must \_\_\_\_\_ .

- A. conduct heat at low temperatures
- B. be malleable and ductile
- C. have low temperature and boiling point
- D. have high resistance and melting point

The correct answer is option [D]

67. What is the name of this item?



A. Light bulb

B. Gas lamp

C. Bunsen burner

D. Gas burner

The correct answer is option [B]

68. This appliance is used to turn solid substances into \_\_\_\_\_ forms.



A. pure

B. crushed

C. mixed

D. watery

The correct answer is option [B]

69. As current flows through an electric iron, the electrical energy is converted into \_\_\_\_\_ energy, which is used for ironing.

A. solar

B. chemical

C. heat

D. light

The correct answer is option [C]

70. This item is called a \_\_\_\_\_ machine .



- A. grinding
- B. blending
- C. mixing
- D. crushing

The correct answer is option [A]

71. The free outlet type supplies limited hot water while the \_\_\_\_\_type supplies in many hot water outlets.

- A. basic
- B. pressure
- C. cistern
- D. transparent

The correct answer is option [B]

72. \_\_\_\_ is fitted to the upper steel plate of an iron to minimize the upward flow of heat from the elements.

- A. A steel plate
- B. A nichrome element
- C. A mica plate
- D. An asbestos pad

The correct answer is option [D]



73. A common way of producing heat for domestic purposes is by \_\_\_\_\_ .

- A. electric current
- B. burning fuel
- C. igniting flames
- D. striking stones

The correct answer is option [B]

74. A generator that supplies direct current only is called \_\_\_\_\_.

- A. transformer
- B. dynamo
- C. upriser
- D. carburettor

The correct answer is option [B]

75. Burning is a process by which chemical energy is changed to \_\_\_\_\_.

- A. heat
- B. light
- C. steam
- D. fire

The correct answer is option [A]

## TOPIC: MAINTENANCE

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

1. The diagram labelled A is a \_\_\_\_\_ iron.



- A. steam
- B. electric
- C. flat
- D. coal

The correct answer is option [C]

2. \_\_\_\_\_ maintenance is the repair work carried out after equipment has broken down.

- A. Corrective
- B. Automatic
- C. Preventive
- D. Predictive

The correct answer is option [A]

3. \_\_\_\_\_ is necessary in order to remove thick frost which reduces the cooling effect of the refrigerator.

- A. Freezing
- B. Defrosting
- C. Icing
- D. Heating

The correct answer is option [B]

4. An open circuit in a faulty electric iron is a sign of a \_\_\_\_\_ .

- A. broken element
- B. dusty coil
- C. twisted wire
- D. hot mica plate

The correct answer is option [A]

5. Dead batteries in a radio must be immediately replaced to prevent \_\_\_\_\_ .

- A. melting
- B. smelling
- C. exploding
- D. rotting

The correct answer is option [D]

6. What is the name of this appliance?



- A. Electric iron
- B. Steam iron
- C. Tilley iron
- D. Coal iron

The correct answer is option [C]

7. Varnished table tops are cleaned with warm water and soft cloth, while adding one tablespoonful of \_\_\_\_\_ per litre of water.

- A. kerosene
- B. diesel
- C. paraffin
- D. dettol

The correct answer is option [C]

8. Polished wood are cleaned with a soft cloth in warm water and a tablespoonful of \_\_\_\_\_ in 4 litres of water.

- A. kerosene
- B. petrol
- C. vinegar
- D. paraffin

The correct answer is option [C]

9. The use of \_\_\_\_\_ is encouraged in order to avoid scratching of crockery.

- A. mild detergent
- B. strong alkali
- C. coarse abrasive
- D. metal scourer

The correct answer is option [A]

10. Use of nylon scourer with fine abrasive powder during cleaning is a care given to \_\_\_\_\_ pots.

- A. aluminium
- B. plastic
- C. wooden
- D. ceramic

The correct answer is option [A]

11. The diagram labelled C is called a \_\_\_\_ iron .



- A. steam
- B. electric
- C. flat
- D. coal

The correct answer is option [A]

12. \_\_\_\_\_ of clothes may occur if the lid of a coal iron is left unlocked.

- A. Wetting
- B. Cracking
- C. Drying
- D. Burning

The correct answer is option [D]

13. In boiling out a new kettle, one teaspoon of \_\_\_\_ must be added to each litre of water.

- A. alkali
- B. potash
- C. soda
- D. borax

The correct answer is option [D]

14. These items are classified as \_\_\_\_\_ .



- A. furniture
- B. gadgets
- C. electronics
- D. kitchenware

The correct answer is option [D]

15. The diagram labelled D is called \_\_\_\_ iron .



- A. steam
- B. electric
- C. flat
- D. coal

The correct answer is option [B]

16. Which of these is a remedy given for continuous up and down rolling of pictures on a TV set?

- A. Hitting the TV set.
- B. Adjusting the power knob.

- C. Switching off the TV set.
- D. Adjusting the vertical hold knob.

The correct answer is option [D]

17. Which of the following is a care given to painted wood tops?

- A. Scrubbing with a hard brush.
- B. Spraying perfumes on tops.
- C. Heating up the painted surfaces.
- D. Washing with warm and soapy water.

The correct answer is option [D]

18. Which of the following is a remedy given for the appearance of "ghost pictures" on a TV screen?

- A. Adjust the volume
- B. Adjust the aerial
- C. Change the TV channel
- D. Relocate the TV set

The correct answer is option [B]

19. An experienced \_\_\_\_\_ must be invited for repairs whenever an electrical appliance becomes faulty.

- A. plumber
- B. electrician
- C. doctor
- D. trader

The correct answer is option [B]

20. \_\_\_\_\_ maintenance is carried out in order to avoid breakdown.

- A. Corrective
- B. Preventive
- C. Predictive
- D. Selective

The correct answer is option [B]

21. An air-conditioner must be switched off before \_\_\_\_\_ .

- A. cleaning
- B. cooling
- C. heating
- D. testing

The correct answer is option [A]

22. Abrasives and metal scourers must not be used on tin utensils in order to avoid \_\_\_\_\_ .

- A. bleaching
- B. rusting
- C. breaking
- D. cracking

The correct answer is option [B]

23. The diagram labelled B is called \_\_\_\_\_ .



- A. steam
- B. electric



- C. flat
- D. coal

The correct answer is option [D]

24. \_\_\_\_ should be used as detergent when cleaning the inside of a refrigerator.

- A. Soda bicarbonate
- B. Silica gel
- C. Sodium chloride
- D. Potassium chlorite

The correct answer is option [A]

25. \_\_\_\_\_ should not be used on enamel pots in order to avoid breaking.

- A. Metal scourer
- B. High heat
- C. Abrasives
- D. Detergents

The correct answer is option [B]

26. To effectively care for electrical appliances, the \_\_\_\_\_ must be read and understood thoroughly.

- A. learner's permit
- B. user's instruction
- C. instruction manual
- D. electronic brochure

The correct answer is option [C]

27. A bed is a framewook made of wood or \_\_\_\_\_ .

- A. cotton

- B. iron
- C. plastic
- D. ceramic

The correct answer is option [B]

28. A 'megga tester' is used to test for continuity between the \_\_\_\_\_ and \_\_\_\_\_ terminals in the iron.

- A. positive(P), neutral(N)
- B. north(N), south(S)
- C. live(L), neutral(N)
- D. positive(P), negative(N)

The correct answer is option [C]

29. Stains on crockery can be removed by rubbing with \_\_\_\_ .

- A. grease
- B. petrol
- C. oil
- D. salt

The correct answer is option [D]

30. New kettles must be made to boil out for 10 minutes in order to prevent \_\_\_\_\_ .

- A. scratching
- B. peeling
- C. discoloration
- D. waxing

The correct answer is option [C]

31. Care given to bed are regular dusting and \_\_\_\_\_ of the wood frame.

- A. washing
- B. scrubbing
- C. polishing
- D. scraping

The correct answer is option [C]

32. Chairs can be made of wood, iron or \_\_\_\_\_ .

- A. cotton
- B. ceramic
- C. sand
- D. plastic

The correct answer is option [D]

33. Use of \_\_\_\_\_ on polished wood will cause scratching of the surface.

- A. files
- B. abrasives
- C. insecticides
- D. water

The correct answer is option [B]

34. Silver cutlery need frequent polishing and cleaning with wood-ash and \_\_\_\_\_ .

- A. tiro
- B. soda
- C. lime
- D. potash

The correct answer is option [C]

35. Care must be taken to avoid heat on polished wood because it causes \_\_\_\_\_.

- A. white heat marks
- B. breaking of table tops
- C. cracking of table tops
- D. discolouration of table

The correct answer is option [A]

36. Chairs can be taken care of by dusting and \_\_\_\_\_ .

- A. brushing
- B. scratching
- C. scrapping
- D. scrubbing

The correct answer is option [A]

37. It is important that we take good care of appliances that we use so that they can \_\_\_\_\_ .

- A. be handed down
- B. work better
- C. be admired by all
- D. last longer

The correct answer is option [D]

## TOPIC: MATERIALS AND PROCESSING

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

1. Articles or items made from clay usually need to be fired \_\_\_\_\_ .

- A. once
- B. twice
- C. thrice
- D. frequently

The correct answer is option [B]

2. Crane hooks and chains are heavy equipments that can be made with \_\_\_\_\_ .

- A. ceramics and wood
- B. brass and latex
- C. wrought iron and high carbon steel
- D. aluminium and paper

The correct answer is option [C]

3. The two types of plastics are thermoplastics and \_\_\_\_\_ .

- A. electrosets
- B. thermosets
- C. electrolastics
- D. thermosats

The correct answer is option [B]

4. The second firing of clayey articles is done at a higher temperature in order to \_\_\_\_\_ .

- A. harden the article
- B. soften the article

- C. moisten the article
- D. beautify the article

The correct answer is option [A]

5. Grey clay is used for making \_\_\_\_\_ .

- A. stoneware utensils
- B. electronics
- C. fine utensils
- D. earthenware utensils

The correct answer is option [A]

6. This metal is called \_\_\_\_\_ .



- A. copper
- B. clay
- C. zinc
- D. wrought iron

The correct answer is option [C]

7. Articles made from clay are initially fired at a temperature of \_\_\_\_\_ in order to \_\_\_\_\_ .

- A. 500°C, drive off excess heat
- B. 1000°C, add more heat
- C. 1000°C, drive off excess moisture

D. 500°C, drive off excess moisture

The correct answer is option [D]

8. Plastics are said to be \_\_\_\_ when even though light can pass through, one cannot clearly see through them.

A. transparent

B. translucent

C. bright

D. opaque

The correct answer is option [B]

9. Which of the following is NOT an example of a non-ferrous metal?

A. Brass

B. Aluminium

C. Copper

D. Wrought iron

The correct answer is option [D]

10. When hot, plastics can be shaped by \_\_\_\_\_.

A. pressing and squeezing

B. rubbing and scratching

C. pushing and pulling

D. holding and dragging

The correct answer is option [A]

11. Which of the following is white in colour and obtained from kaolin?

A. Red clay

B. Grey clay

C. China clay

D. Fine clay

The correct answer is option [C]

12. The basic material in the production of ceramics is \_\_\_\_\_ .

A. sand

B. clay

C. wood

D. water

The correct answer is option [B]

13. Rubber can be used to protect machinery from wear and sudden shock because it is \_\_\_\_\_ .

A. brittle

B. elastic

C. soft

D. light

The correct answer is option [B]

14. The rubber material of our raincoats serve to protect us from the rain because it is \_\_\_\_\_ .

A. soft

B. light

C. elastic

D. waterproof

The correct answer is option [D]



15. A modern toilet is entirely built with \_\_\_\_\_ .

- A. rubber
- B. metal
- C. glass
- D. ceramic

The correct answer is option [D]

16. Example of joinery made from wood is \_\_\_\_\_.

- A. elevator
- B. bolts and nuts
- C. staircase
- D. computer

The correct answer is option [C]

17. Ceramics qualify to be used in making furnaces because \_\_\_\_\_ .

- A. they break in the face of high temperature
- B. they can withstand very high temperatures
- C. they can control the temperature of the furnace
- D. they can make the fire burn faster than normal

The correct answer is option [B]

18. The melting point for cast iron is \_\_\_\_\_ .

- A. 1500°C
- B. 2500°C
- C. 1240°C
- D. 3000°C

The correct answer is option [C]

19. Red clay contains \_\_\_\_\_ .

- A. carbon dioxide
- B. sulphur oxide
- C. iron oxide
- D. potassium oxide

The correct answer is option [C]

20. Zinc can be used in the production of the following **EXCEPT** \_\_\_\_\_ .

- A. battery
- B. tin wires
- C. foils
- D. cotton buds

The correct answer is option [D]

21. \_\_\_\_\_ is an example of a non-ferrous metal.

- A. Copper
- B. Cast iron
- C. Steel
- D. Wrought iron

The correct answer is option [A]

22. \_\_\_\_\_ is the process by which the properties of rubber are improved upon.

- A. Vulcanizing
- B. Smoldering
- C. Soldering
- D. Plumbing

The correct answer is option [A]

23. Red clay contains \_\_\_\_\_ .

- A. carbon oxide
- B. iron dioxide
- C. iron oxide
- D. carbon dioxide

The correct answer is option [C]

24. Medical use of wood is found in \_\_\_\_\_ .

- A. surgical equipment
- B. x-ray of patients
- C. drug packaging
- D. construction of artificial limbs

The correct answer is option [D]

25. All kinds of cutting tools can be made from \_\_\_\_\_ .

- A. aluminium
- B. high carbon steel
- C. brass
- D. low carbon steel

The correct answer is option [D]

26. High carbon steels contain \_\_\_\_\_ .

- A. 99% iron with small amount of impurities
- B. 80% carbon with large amount of iron
- C. 90% carbon with small amount of iron
- D. 50% each of carbon and iron

The correct answer is option [A]

27. Red clay is used for making \_\_\_\_\_ .

- A. stoneware utensils
- B. electronics
- C. fine utensils
- D. earthenware utensils

The correct answer is option [D]

28. Household appliances made from wood include \_\_\_\_\_ .

- A. television
- B. wardrobe
- C. cooking pots
- D. cutleries

The correct answer is option [B]

29. Which is the odd one out?



The correct answer is option [A]

Option A is a wooden item while others are ceramic items.

30. Parts of housing where wood is used does NOT include \_\_\_\_\_ .

- A. bathtubs
- B. doors
- C. wardrobes
- D. roofings

The correct answer is option [A]

31. Rubber is used in the making of \_\_\_\_\_ .

- (i) hoses
- (ii) pipes
- (iii) belts
- (iv) footwears

- A. (i) only
- B. (i) and (ii) only
- C. (i) and (iii) only
- D. All of the above

The correct answer is option [D]

32. This object is made from \_\_\_\_\_ .



- A. plastic

B. aluminium

C. steel

D. copper

The correct answer is option [B]

33. This item is made of \_\_\_\_\_ .



A. plastic

B. wood

C. ceramic

D. metal

The correct answer is option [C]

34. The basic material for the production of ceramics is \_\_\_\_\_ .

A. sand

B. clay

C. glass

D. metal

The correct answer is option [B]

35. The latex drawn from the rubber tree is not strong and softens at a temperature of \_\_\_\_\_ .

- A. 200°C
- B. 160°C
- C. 50°C
- D. 100°C

The correct answer is option [B]

36. This item is made of \_\_\_\_\_ .



- A. plastic
- B. wood
- C. ceramics
- D. wood

The correct answer is option [A]

37. This item is made from \_\_\_\_\_ .



- A. lead
- B. tin
- C. copper
- D. zinc

The correct answer is option [C]

38. This metal is called \_\_\_\_\_ .



- A. lead
- B. steel
- C. zinc
- D. tin

The correct answer is option [A]

39. Tools that can be made from wood include \_\_\_\_

- A. wheelbarrow
- B. hammer handle
- C. scissors
- D. spanner

The correct answer is option [B]



40. Synthetic rubbers are manufactured from \_\_\_\_\_.

- A. electricity
- B. plants
- C. chemicals
- D. animal skin

The correct answer is option [C]

41. Which of the following reasons qualify ceramics as good storage materials for water and chemicals?

- A. They are brittle and so can protect the items inside.
- B. They are resistant to diseases and infections from the environment.
- C. They do not corrode and are resistant to chemical attack.
- D. They beautify the storage cans.

The correct answer is option [C]

42. Metals are divided into \_\_\_\_\_.

- A. natural and synthetic metals
- B. plain and coloured metals
- C. heavy and light metals
- D. ferrous and non-ferrous metals

The correct answer is option [D]

43. Examples of softwoods are \_\_\_\_\_ and \_\_\_\_\_.

- A. cedar, pine
- B. cedar, iroko
- C. iroko, spruce
- D. ekki, omo

The correct answer is option [A]

44. This item is made from \_\_\_\_\_ .



- A. copper
- B. lead
- C. tin
- D. zinc

The correct answer is option [B]

45. The type of plastic used in making pipes, plumbing fittings and rainwears is \_\_\_\_\_.

- A. nylon
- B. acrylic PMMA
- C. polyethylene polythene
- D. polyvinyl chloride

The correct answer is option [D]

46. The type of plastic used in the making of toys and domestic utensils is \_\_\_\_\_.

- A. nylon
- B. acrylic PMMA
- C. polyethylene polythene
- D. polyvinyl chloride

The correct answer is option [C]

47. The process that involve the addition of sulphur to rubber, together with fine carbon particles while heating is known as \_\_\_\_\_ .

- A. smoldering
- B. vulcanizing
- C. soldering
- D. plumbing

The correct answer is option [B]

48. The use of zinc include \_\_\_\_\_ .

- A. making protective coatings for plastics.
- B. use in embroidery work.
- C. use as foundation work for ceramics items.
- D. use in making protective coatings for steel.

The correct answer is option [D]

49. Natural rubbers are produced from the \_\_\_\_\_ of rubber trees.

- A. latex
- B. root
- C. leaves
- D. stem

The correct answer is option [A]

50. Plastics are said to be \_\_\_\_\_ when one can see through them.

- A. bright
- B. translucent
- C. opaque
- D. transparent

The correct answer is option [D]

51. Which of the following is NOT a use of aluminium? The use of aluminium does NOT include \_\_\_\_\_ .

- A. packaging for beverage can bodies and tops.
- B. making transport vehicles like cars and aircrafts.
- C. making of beads
- D. construction for roofing and wall cladding.

The correct answer is option [C]

52. Which of the following is NOT a property of rubber ?

- A. They are brittle
- B. They are soft
- C. They are elastic
- D. They are waterproof

The correct answer is option [A]

53. Cast iron contains a mixture of carbon and iron with carbon content at \_\_\_\_\_ percent

- A. 1-10
- B. 1.5-5
- C. 5.5-10.5
- D. 2-2.5

The correct answer is option [B]

54. Wood is used in the \_\_\_\_\_ industry for production of books and magazines.

- A. cotton
- B. latex
- C. paper
- D. glass

The correct answer is option [C]

55. This item is made of \_\_\_\_\_ .



- A. plastic
- B. wood
- C. ceramic
- D. metal

The correct answer is option [D]

56. In the clothing industry, use of wood can be found in all EXCEPT\_\_\_\_\_.

- A. making of lipsticks
- B. making of rayon stockings
- C. making of shoe soles
- D. making of jewelries

The correct answer is option [A]

57. Thermoplastics are plastics that become \_\_\_\_\_ when heated.

- A. brittle
- B. sharp
- C. soft
- D. hard

The correct answer is option [C]

58. Rubber soles on our shoes serve to protect our feet from the hard ground because they are \_\_\_\_\_ .

- A. brittle

- B. elastic
- C. soft
- D. light

The correct answer is option [C]

59. Natural rubber is destroyed with age and when exposed to \_\_\_\_\_ .

- A. dust
- B. rain
- C. cold
- D. sunlight

The correct answer is option [D]

60. Examples of hardwoods are \_\_\_\_\_ and \_\_\_\_\_.

- A. cedar, pine
- B. ciper, spruce
- C. pine, spruce
- D. iroko, afromosia

The correct answer is option [D]

61. Plastics are said to be opaque when \_\_\_\_\_.

- A. light cannot pass through them
- B. objects can pass through them
- C. light can pass through them
- D. people can look through them

The correct answer is option [A]

62. High carbon steel and wrought iron are similar in properties because they are both \_\_\_\_\_ .

- A. hard and brittle
- B. rough and fusible
- C. malleable and ductile
- D. fine and sharp

The correct answer is option [C]

63. The melting point of latex is \_\_\_\_\_ .

- A. 150°C
- B. 75°C
- C. 220°C
- D. 300°C

The correct answer is option [C]

64. We can find the use of wrought iron in the making of \_\_\_\_\_ .

- A. baby toys
- B. crane hooks
- C. cutleries
- D. foils

The correct answer is option [B]

65. The melting point for wrought iron is \_\_\_\_\_ .

- A. 2005°C
- B. 1500°C
- C. 1240°C
- D. 2400°C

The correct answer is option [A]

66. Uses of woods apply in \_\_\_\_\_ .

- (i) housing
- (ii) furniture
- (iii) transport
- (iv) medicine

- A. (i) only
- B. (i) and (ii) only
- C. (i), (ii) and (iii)
- D. All of the above

The correct answer is option [D]



## TOPIC: SAFETY

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

1. What is the first thing to do on a person with a high fever?

- A. Take him to the hospital and place him on bed rest.
- B. Remove his cloths and use a wet towel all over the body.
- C. Remove his cloths and make him bath three times a day.
- D. Give him food and some pain killers.

The correct answer is option [B]

2. Accidents that require first aid treatment include all EXCEPT \_\_\_\_\_.

- A. cuts
- B. body massage
- C. snakebites
- D. scorpion bites

The correct answer is option [B]

3. This item is used on wounds to \_\_\_\_\_ .



- A. disinfect wound
- B. stop bleeding

- C. ease pain
- D. clean up wound

The correct answer is option [A]

4. What is the name of this box?



- A. First aid box
- B. Medical box
- C. Clinic box
- D. Doctor's box

The correct answer is option [A]

5. The material in a first aid box used to keep the drug on the wound for a long time is \_\_\_\_\_ .

- A. plaster
- B. scarf
- C. capsule
- D. penicillin

The correct answer is option [A]

6. What is the name of this material?



- A. Penicillin
- B. Plaster
- C. Cotton wool
- D. Scissors

The correct answer is option [C]

7. This item is used on wounds in order to \_\_\_\_\_.



- A. clean up wounds
- B. stop pain
- C. cut open the wound
- D. control bleeding

The correct answer is option [D]

8. What is the name of this item?



- A. Scissors
- B. Knife
- C. Razor blade
- D. Matchet

The correct answer is option [A]

9. Which is the odd one out ?



The correct answer is option [D]

Options A, B, C are first aid materials while option D is not.

10. Why is a cold wet towel used on a person with high fever?

- A. It helps moisten the patient's body.
- B. It helps calm the person down and make him sleep.
- C. It helps cool down the body temperature
- D. It helps alleviate body pains.

The correct answer is option [C]

11. Which of the following is a case that requires first aid treatment?

- A. Scorpion stings
- B. Surgery
- C. X-ray
- D. Death

The correct answer is option [A]

12. What is the name of this item?



- A. Plaster
- B. Cotton wool
- C. Clothe
- D. Bandage

The correct answer is option [D]

13. What is the name of this item?

- A. Penicillin
- B. Tablet
- C. Disinfectant
- D. Capsule

The correct answer is option [C]

14. \_\_\_\_\_ is used to cut bandages and plasters.

- A. Knife
- B. Scissors
- C. Matchet
- D. Needle

The correct answer is option [B]

15. \_\_\_\_\_ is applied on a fresh wound in order to help it heal fast.

- A. Tablet
- B. Penicillin
- C. Ink
- D. Plaster

The correct answer is option [B]

16. These items are known as \_\_\_\_\_ tools .



- A. workshop
- B. driving
- C. first aid
- D. drawing

The correct answer is option [C]

17. A disinfectant is used on a wound or cut in order to \_\_\_\_\_ .

- A. mark the wound
- B. prevent infection of the wound
- C. decorate the wound
- D. stop pain

The correct answer is option [B]

18. What is the first aid treatment to give in the case of a snake or scorpion bite?

- A. Tie rope on the bleeding point and inject.
- B. Cut off the bitten part in order to avoid spread of poison.
- C. Tie rope above the bite point and suck out the poison.
- D. Tie rope above the bite and make razor blade incisions on the bite point so poison can flow out.

The correct answer is option [D]

19. This material is used to \_\_\_\_\_ .





- A. disinfect wounds
- B. heal wounds
- C. alleviate pain
- D. clean up wounds

The correct answer is option [D]

20. This material is applied on a wound in order to \_\_\_\_ .



- A. prevent infections
- B. spread infections
- C. apply pressure on the wound
- D. stop bleeding

The correct answer is option [A]

21. What is the first aid treatment given to a drowning person?

- A. Gently press the belly to release water through the mouth and nose.
- B. Gently rock the person to sleep.
- C. Massage the person's body to release tension.
- D. Give the person an anti-shock capsule in case of shock.

The correct answer is option [A]



22. What is the name of this item?



- A. Penicillin
- B. Plaster
- C. Scissors
- D. Cotton wool

The correct answer is option [B]

23. First aid materials include \_\_\_\_\_ .

- (i) plasters
- (ii) cotton wool
- (iii) scissors
- (iv) penicillin

- A. (i) only
- B. (i) and (ii) only
- C. (i) and (iii) only
- D. All of the above

The correct answer is option [D]

24. What is the name of this item?



- A. Penicillin
- B. Tablets
- C. Scissors
- D. File

The correct answer is option [B]

25. \_\_\_\_\_ are used to ease feelings of pain.

- A. Ink
- B. Iodine
- C. Water
- D. Tablets

The correct answer is option [D]

26. \_\_\_\_\_ is used for controlling bleeding.

- A. Cotton wool
- B. Scissors
- C. Bandage
- D. Razor blade

The correct answer is option [C]

27. \_\_\_\_\_ is the container for materials needed for first aid treatment.

- A. Medical box
- B. First aid box
- C. Clinical box
- D. Service box

The correct answer is option [B]

28. Which of the following is the first thing to do in applying first aid treatment to a bleeding patient?

- A. Cover bleeding with piece of clothe.
- B. Soak bleeding in hot water.
- C. Drain bleeding with cotton wool and iodine.
- D. Place ice packs on bleeding.

The correct answer is option [C]

29. The help or emergency treatment given to an injured or sick person before professional medical care is available is termed \_\_\_\_\_ .

- A. first aid
- B. massage
- C. surgery
- D. natural aid

The correct answer is option [A]

## TOPIC: TOOLS AND MATERIALS

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

1. The \_\_\_\_\_ is used for curved work and can be passed through a hole for pierced work.

- A. piercing saw
- B. brass back saw
- C. junior hacksaw
- D. hacksaw

The correct answer is option [A]

2. The item labelled "II" is called \_\_\_\_\_ .



- A. junior hacksaw
- B. hacksaw
- C. brass back saw
- D. piercing saw

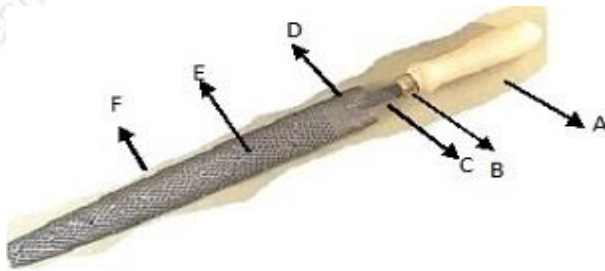
The correct answer is option [C]

3. The tool used to mark the bore of tubes and toneness of parallel surfaces is the \_\_\_\_\_ .

- A. divider
- B. screwdriver
- C. outside calipers
- D. odd-leg calipers

The correct answer is option [C]

4. The part labelled C is called \_\_\_\_\_ .



- A. heel
- B. face
- C. edge
- D. tang

The correct answer is option [D]

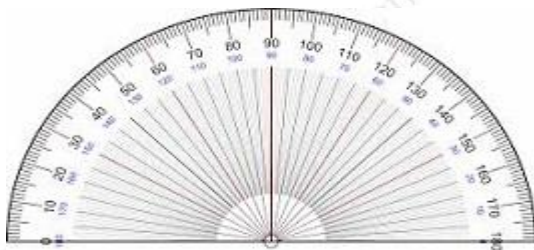
5. What is the name of this tool?



- A. Chisel
- B. File
- C. Saw
- D. Knife

The correct answer is option [B]

6. What is the name of this tool?



- A. Semi circle
- B. C-square
- C. Protractor
- D. Compass

The correct answer is option [C]

7. Which of the following files is mainly used as a saw?

- A. Riffler file
- B. Round file
- C. Abrafile
- D. Needle file

The correct answer is option [C]

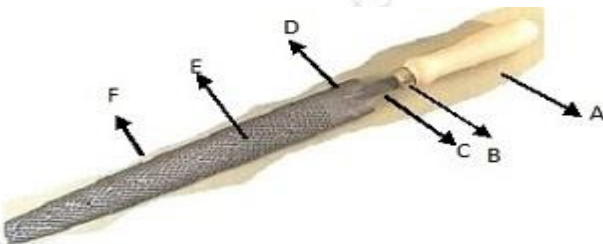
8. What is the name of this tool?



- A. T-square
- B. Steel ruler
- C. Divider
- D. Set square

The correct answer is option [B]

9. The part labelled E is called \_\_\_\_\_ .



- A. heel
- B. face
- C. edge
- D. point

The correct answer is option [B]

10. Hammers weighing between \_\_\_\_\_ are used for driving in pins.

- A. 500-1500g
- B. 500-2000g
- C. 1000-2000g
- D. 500-750g

The correct answer is option [D]

11. The \_\_\_\_\_ is used for fine work in soft metals.

- A. hacksaw
- B. junior hacksaw
- C. piercing saw
- D. brass back saw

The correct answer is option [D]

12. Item A is called \_\_\_\_\_ .



- A. diamond point chisel
- B. flat chisel
- C. half round chisel
- D. cross out chisel

The correct answer is option [B]

13. Hammers weighing 1000g are used for \_\_\_\_\_.

- A. cutting metals or chiselling
- B. driving pins in and out
- C. driving into light materials
- D. driving in hot metals

The correct answer is option [A]

14. What is the name of this tool?



- A. Spanner
- B. Screwdriver
- C. File
- D. Saw

The correct answer is option [A]

15. What is the name of this tool?





- A. Divider
- B. Compass
- C. Protractor
- D. Scissors

The correct answer is option [A]

16. Surface plates are used in the workshop with angle plates, vee blocks and \_\_\_\_\_ .

- A. T-squares
- B. dividers
- C. clamps
- D. protractors

The correct answer is option [C]

17. The item labelled "III" is called \_\_\_\_\_ .



- A. hacksaw
- B. junior hacksaw
- C. brass back saw
- D. piercing saw

The correct answer is option [A]

18. The common hacksaws are \_\_\_\_\_ long, \_\_\_\_\_ wide and \_\_\_\_\_ thick.

- A. 250-300mm, 13mm, 0.65mm
- B. 500-750mm, 5mm, 7.5mm
- C. 50-150mm, 20mm, 10.5mm
- D. 550-650mm, 5mm, 0.01mm

The correct answer is option [A]

19. Types of saw used in metal work does NOT include \_\_\_\_\_

- A. front-back saw
- B. hacksaw
- C. pierciing saw
- D. brass back saw

The correct answer is option [A]

20. The head of a hammer is made of high carbon steel with approximately \_\_\_\_\_ carbon.

- A. 10%
- B. 0.25%
- C. 0.6%
- D. 11.6%

The correct answer is option [C]

21. During measurement of tools, the T-square can only be used for checking a \_\_\_\_\_ angle.

- A. 90°
- B. 60°
- C. 45°
- D. 270°

The correct answer is option [A]

22. Which of the saws has an adjustable frame that allows a very fine blade to be held in a clamp-like grip and tension?

- A. Junior hacksaw
- B. Piercing saw
- C. Brass back saw
- D. Hacksaw

The correct answer is option [B]

23. The tool used on the lathe for scribing a line round the work is the \_\_\_\_ .

- A. odd-leg calipers
- B. parallel calipers
- C. outside calipers
- D. inside calipers

The correct answer is option [A]

24. Hammer types are identified by \_\_\_\_ .

- A. size of their handles
- B. size of their heads
- C. length of the handles
- D. shape of the heads

The correct answer is option [D]

25. What is the name of this tool?



- A. Calipers
- B. Protractor
- C. Scriber
- D. Punch

The correct answer is option [A]

26. The \_\_\_\_\_ chisel is used for cutting square grooves such as slots and channels.

- A. half-round
- B. flat
- C. cross out
- D. diamond point

The correct answer is option [C]

27. A scribe is made of \_\_\_\_\_ .

- A. wood
- B. bronze
- C. ceramic
- D. tool steel

The correct answer is option [D]

28. Which type of file resembles the blade of a knife and is useful for cleaning corners?

- A. Knife file
- B. Round file
- C. Flat file
- D. Pillar file

The correct answer is option [A]

29. \_\_\_\_\_ are used for inserting and removing screws.

- A. Drillers
- B. Spanners
- C. Screwdrivers
- D. Mallet

The correct answer is option [C]

30. The hammer is made up of two parts which are \_\_\_\_\_ and \_\_\_\_\_ .

- A. top, bottom
- B. tail, shaft
- C. head, tail
- D. head, handle

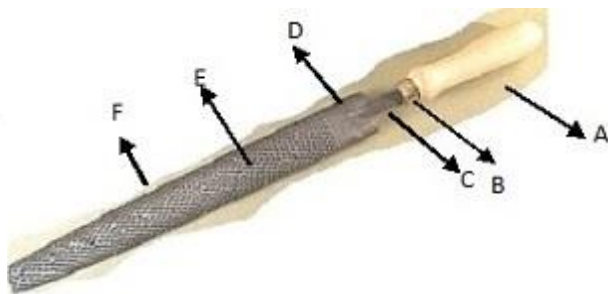
The correct answer is option [D]

31. What is the surface plate used for ?

- A. It is used to test whether other surfaces are flat enough.
- B. It is used to place the drawing paper during technical drawing.
- C. It is used to test for the temperature of tools.
- D. It is used to place tools during metal work.

The correct answer is option [A]

32. The part labelled B is called \_\_\_\_\_ .



- A. ferrule
- B. head
- C. handle
- D. tang

The correct answer is option [A]

33. The item labelled "I" is called \_\_\_\_ .



- A. hacksaw
- B. junior hacksaw
- C. brass back saw
- D. piercing saw

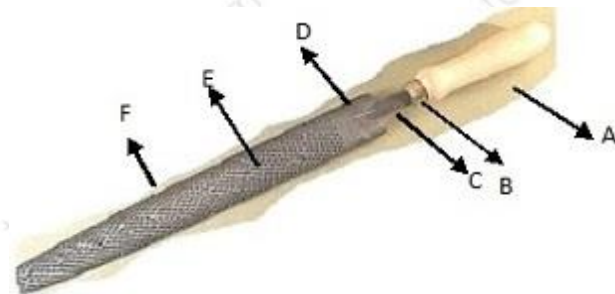
The correct answer is option [B]

34. The \_\_\_\_\_ are used for engraving, die sinking and silver smithing

- A. abrafiles
- B. round files
- C. needle files
- D. riffler files

The correct answer is option [D]

35. The part labelled D is called \_\_\_\_\_ .



- A. heel
- B. face
- C. edge
- D. point

The correct answer is option [A]

36. What is the name of this tool?



- A. Spanner
- B. Chisel
- C. Punch
- D. Screwdriver

The correct answer is option [C]

37. Files classified according to their shape include \_\_\_\_\_ .

- A. riffler file
- B. abrafile
- C. square file
- D. needle file

The correct answer is option [C]

38. The driving tools used in metal work does NOT include \_\_\_\_\_ .

- A. punches
- B. chisels
- C. spanners
- D. screwdrivers

The correct answer is option [B]

39. The steel ruler works with \_\_\_\_ and \_\_\_\_.

- A. dividers, calipers
- B. punches, protractors
- C. compass, protractor
- D. calipers, file

The correct answer is option [A]

40. Which of the following types of hammer is generally used by the panel beater?

- A. Soft hammer
- B. Ball peen hammer
- C. Planishing head hammer
- D. Rivetting hammer

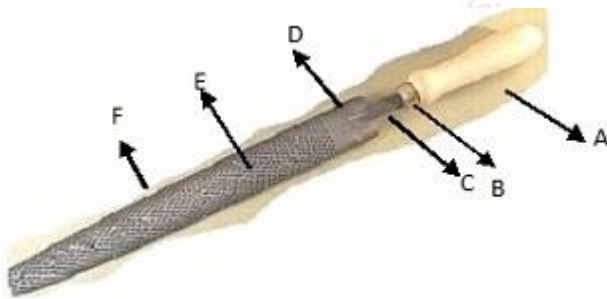
The correct answer is option [C]

41. Which of the following is NOT a type of hammer?

- A. Straight peen head
- B. Ballpoint head
- C. Blocking head
- D. Ball peen head

The correct answer is option [B]

42. The part labelled A is called \_\_\_\_\_ .



A. ferrule



- B. length
- C. wooden handle
- D. tang

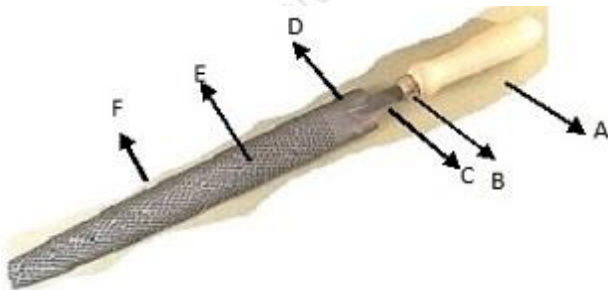
The correct answer is option [C]

43. The blade of the screwdriver is made of \_\_\_\_ .

- A. copper
- B. wrought iron
- C. cast iron
- D. tool steel

The correct answer is option [D]

44. The part labelled F is called \_\_\_\_ .



- A. heel
- B. face
- C. edge
- D. point

The correct answer is option [C]

45. Calipers are used as \_\_\_\_\_ tools.

- A. marking and boring
- B. boring and drilling
- C. measuring and cutting

D. marking and measuring

The correct answer is option [D]

46. Which of the files is out on all four sides and tapers towards the tip?

- A. Flat files
- B. Pillar files
- C. Square files
- D. Knife files

The correct answer is option [C]

47. Outside calipers are used to \_\_\_\_\_ .

- A. clamp tools during metal work
- B. mark the inside of parallel surfaces
- C. mark the center of the ends of bars and tools
- D. mark the outside of bars and rods

The correct answer is option [D]

48. Item C is called \_\_\_\_\_ .



- A. diamond point chisel
- B. flat chisel
- C. half round chisel
- D. cross out chisel

The correct answer is option [C]

49. Files classified according to their cut include \_\_\_\_\_ .

- A. flat file
- B. abrafile
- C. half round file
- D. square file

The correct answer is option [B]

50. The item labelled "IV" is called \_\_\_\_\_ .



- A. Junior hacksaw
- B. hacksaw
- C. brass back saw
- D. piercing saw

The correct answer is option [D]

51. \_\_\_\_\_ are tools which are used for marking out circles, arcs and radii.

- A. Scriber and surface plate
- B. Screwdriver and scriber
- C. T-square and punch
- D. Divider and calipers

The correct answer is option [D]

52. A scriber is used to \_\_\_\_\_ .

- A. bore a hole on the metal
- B. scratch a line on the metal
- C. draw a line on the surface plate

D. puncture the metal

The correct answer is option [B]

53. What is the name of this tool ?



A. Spanner

B. Chisel

C. Punch

D. Screwdriver

The correct answer is option [D]

54. Calipers are used in measuring the \_\_\_\_\_ of the objects being formed.

A. radii

B. degree

C. diameter

D. vertex

The correct answer is option [C]

55. The \_\_\_\_\_ is used for drawing down and riveting in an awkward position.

A. pent head hammer

B. creasing hammer

C. whorring head hammer

D. cross peen head hammer

The correct answer is option [D]

56. Which of the following is NOT a type of caliper?

- A. Outside calipers
- B. Micksteel calipers
- C. Inside calipers
- D. Odd-leg calipers

The correct answer is option [B]

57. Which of the following types of hammer is generally used by the sheet metal workers?

- A. Sheet head hammer
- B. Blocking head hammer
- C. Planishing head hammer
- D. Hallowing head hammer

The correct answer is option [B]

58. There are \_\_\_\_ main types of chisels.

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

The correct answer is option [D]

They are flat chisels, diamond point chisels, half round chisels, and cross out chisels.

59. Which of the following is NOT a use of punches?

- A. They are used to bore holes on the sheet metal being worked on.
- B. They are used to measure the length of metal being worked upon.
- C. They are used to make scribed lines more conspicuous.
- D. They are used to locate the centres of circles, radii and arcs.

The correct answer is option [B]

60. Measuring tools include \_\_\_\_\_ .

- (i) steel ruler
- (ii) T-square
- (iii) protractor

- A. (i) only
- B. (ii) only
- C. (iii) only
- D. All of the above

The correct answer is option [D]

61. Why are chisels called cold chisels?

- A. They are used to cut cold metals.
- B. They are used to make hot metals cold.
- C. They reduce the temperature of hot metals.
- D. They are used to mould hot metals.

The correct answer is option [A]

62. Categories of tools include all EXCEPT \_\_\_\_\_ .

- A. marking tools
- B. spooking tools
- C. driving tools
- D. cutting tools

The correct answer is option [B]

63. Hammers weighing between \_\_\_\_\_ and \_\_\_\_\_ are used for light work.

- A. 50-150g
- B. 500-1000g
- C. 100-250g

D. 1000-10,000g

The correct answer is option [C]

64. The steel ruler is made of \_\_\_\_\_ .

- A. steel or wood
- B. wrought iron or copper
- C. carbon steel or stainless steel
- D. bronze or wood

The correct answer is option [C]

65. \_\_\_\_\_chisel is a general purpose chisel used for cutting sheet and plate metal and removing surplus metal from surface?

- A. Cross out
- B. Flat
- C. Half-round
- D. Diamond point

The correct answer is option [B]

66. What type of hammer is this?



- A. Claw hammer
- B. Ball peen head
- C. Warrington hammer
- D. Blocking head

The correct answer is option [B]

67. Which of the following is NOT a cutting tool?

- A. Chisel
- B. Spanner
- C. File
- D. Saw

The correct answer is option [B]

68. The \_\_\_\_ chisel is used for squaring holes and clearing corners.

- A. flat
- B. cross out
- C. half -round
- D. diamond point

The correct answer is option [D]

69. What category of tools does the scriber belong?

- A. Boring tools
- B. Driving tools
- C. Cutting tools
- D. Marking tools

The correct answer is option [D]

70. What is the name of this tool?



- A. Screwdriver
- B. Spanner



C. Scriber

D. Divider

The correct answer is option [C]

71. The \_\_\_\_\_ is a general purpose hammer.

A. ball peen head hammer

B. triple head hammer

C. planishing head hammer

D. single head hammer

The correct answer is option [A]

72. Item D is called \_\_\_\_\_ .



A. diamond point chisel

B. flat chisel

C. half round chisel

D. cross out chisel

The correct answer is option [D]

73. Item B is called \_\_\_\_\_ .



A. diamond point chisel

B. flat chisel

C. half round chisel

D. cross out chisel

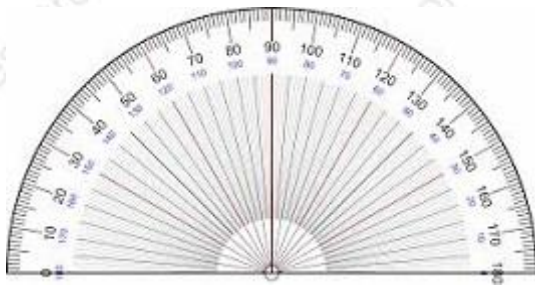
The correct answer is option [A]

74. Spanners whose ends can be adjusted are called \_\_\_\_\_ spanners.

- A. adjustable
- B. removable
- C. flexible
- D. fickle

The correct answer is option [A]

75. What is this equipment used for?



- A. Percentage measurement
- B. Line measurement
- C. Degree measurement
- D. Angle measurement

The correct answer is option [D]

76. Surface plates are made with \_\_\_\_\_ .

- A. rough surfaces
- B. flat surfaces
- C. curved surfaces
- D. crooked surfaces

The correct answer is option [B]

77. What type of hammer is this?



- A. Straight peen head
- B. Ball peen head
- C. Blocking head
- D. Planishing head

The correct answer is option [D]

78. The next exercise to carry out after marking of tools is to \_\_\_\_\_.

- A. store the metals
- B. measure the metals
- C. cut the metals
- D. cool the metals

The correct answer is option [B]

79. The saw is a \_\_\_\_\_ tool.

- A. driving
- B. drilling
- C. cutting
- D. marking

The correct answer is option [C]

80. Dividers are used for marking out \_\_\_\_\_ .

- A. lines, angles and tangents
- B. arcs, circles and radii
- C. degrees, radian and radii
- D. lines, arcs and tangents

The correct answer is option [B]

81. What type of hammer is this?



- A. Warrington hammer
- B. Claw hammer
- C. Blocking head hammer
- D. Soft hammer

The correct answer is option [C]

82. The surface plate is used as a \_\_\_\_\_ in metalwork.

- A. surface to mark out metals
- B. surface to place tools
- C. surface for placing drawing papers
- D. drawing surface

The correct answer is option [A]

83. Files are classified according to their cut, shape, and \_\_\_\_\_ .

- A. length
- B. height
- C. width
- D. dimension

The correct answer is option [A]

84. The handle of the hammer is made of \_\_\_\_\_ .

- A. wood
- B. metal
- C. glass
- D. ceramic

The correct answer is option [A]

85. Types of chisels include \_\_\_\_\_ .

- (i) chain chisel
- (ii) flat chisel
- (iii) half-round chisel
- (iv) diamond point chisel

- A. (i) only
- B. (i) and (ii) only
- C. (ii), (iii) and (iv)
- D. All of the above

The correct answer is option [C]

86. What is the name of this tool?



- A. Hot table
- B. Bench plane
- C. Surface plate
- D. scribe

The correct answer is option [C]

87. Which of the files is similar to flat file but thinner, and used by locksmiths?

- A. Square files
- B. Warding files
- C. Half round files
- D. Pillar files

The correct answer is option [B]

88. Which of the following is NOT a marking out tool?

- A. Rip saw
- B. Surface plate
- C. Scriber
- D. Odd-leg

The correct answer is option [A]

## TOPIC: YOU AND TECHNOLOGY

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

1. ISP's in Nigeria include \_\_\_\_\_ .

(i) skannet

(ii) linkserve

(iii) callus miller

(iv) infoweb

(v) cyberspace

A. (i) only

B. (i) and (ii) only

C. (i), (ii) and (iii)

D. (i), (ii), (iv) and (v)

The correct answer is option [D]

2. Transmission requests are done through \_\_\_\_\_ or \_\_\_\_\_.

A. telephone line, television links

B. desktops, telephone calls

C. manual connections, tv links to ISP

D. telephone lines, radio link to ISP

The correct answer is option [D]

3. The client computer must be linked to \_\_\_\_\_ .

A. intra service provider

B. internet service provider

C. internet server publisher

D. inter service provider

The correct answer is option [B]

4. A computer may be located in these areas EXCEPT \_\_\_\_\_ .

- A. the office
- B. bathroom
- C. school
- D. home

The correct answer is option [B]