

BIOLOGY

FOR Senior Secondary School

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QUESTIONS

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TOPIC: BIOLOGY OF HEREDITY (GENETICS)

DIRECTION: Choose the correct answer from the lettered options.

1. Albinism is as a result of the absence of skin.	pigment in the malpighian layer of the
A. keratin	
B. melanin	
C. tyrosine	
D. nicotine	
2. Human height is an example of a feature	which depends on both and
A. genotype	
B. genetic and environmental factors	
C. mother's genotype and environmental	factors
D. phenotype and environmental factors	
3. The sugar in RNA contains	
A. acids	
B. hydrogen	
C. oxygen	
D. all of the above	
4 is a biological factor unique to	o each individual.
A. DNA	
B. The eye colour	
C. The blood group	
D. Genetics	
5. Which of the following traits may not be	important in marriage counselling?

A. Sex-determination	1		
B. Sickle-cell anemia	1		
C. Rhesus factor			
D. Colour of skin			
6. If a baby is a female carrying the ch		m must have been fo	ertilized by a sperm
A. X			
B. XY			
C. XX			
D. Y			
7. Which of these state	tements is true aboı	ut the human ABO b	blood grouping system?
A. Blood type B is red			
B. Blood type O is do			
C. Blood type O is co		e A	
D. Blood type O has			
	-5'5'		
8. Heredity can be de	efined as		
A. the non-resemblar		ed organisms	
B. the total absence	•	J	
		20	
C. the absence of va	00		
D. the transfer of cha	aracteristics from pa	irents to onspring	
9. Which of the follow	ving is a sex-linked o	character?	
A. Sickle-cell anemia	I		
B. Tongue rolling			

C. Skin colour			
D. Colour blindness			
10. Which of the followin	g is the precise location	of gene?	
A. Chromosome			
B. Nucleus			
C. Centriole			
D. Ribosome			
11. All hereditary charact through the process of _	ers in a cell are passed c	n from parent cell to d	aughter cell
A. mitosis			
B. meiosis			
C. fertilization			
D. implantation			
12 refers to a pair of contrasting cha	pair of contrasting genes aracters.	on the chromosomes t	for expressing
A. Hybrids			
B. Alleles			
C. Genotype			
D. Phenotype			
13. Which of the following	g statements is not true a	about chromosomes?	
A. Each chromosome is	made up of two chromati	ds.	
B. Body cells have diplo	oid numbers of chromoso	mes.	
C. Homologous chromo	somes do not occur in p	airs naturally.	
D. Homologous chromo	somes occur in pairs nat	urally	

14. The following are	e genetic disorders e	except	·	
A. sickle cell anemi	ia			
B. filariasis				
C. phenylketonuria	I			
D. hemophilia				
15. A unit of heredit	y is called			
A. character				
B. protein				
C. RNA				
D. gene				
16. Which one of the	e following is not a ty	pe of RNA?		
A. rRNA				
B. mRNA				
C. tRNA				
D. nRNA				
17. The somatic cell	ls of man contains	number of chr	omosomes.	
A. 45				
B. 43				
C. 46				
D. 40	*esteries			
18is found	d in the nucleus of a	living cell, carryi	ng genetic info	rmation?
A. Blood				
B. Sperm				

C. Ovary			
D. Chromosome			
19. When true breeding Ta plants the F1 generation w members of F1 generation	as all tall. What is	s the genetic ratio of th	
A. 1 tall: 3 short			
B. 3 tall: 1 short			
C. 1 tall: 1 short			
D. O tall: 4 short			
20. Sickle-cell anemia has	persisted in the	human race due to	·
A. lack of proper medical	care for sickle co	ell patients	
B. carriers being more res	istant to malaria		
C. carriers still intermarryi	ng		
D. all of the above			
21. A zygote with one X-ch	romosome will g	ive rise to	
A. a female with immature	sex organ		
B. a female with very matu	ıre sex organ		
C. a female who is sterile	but have normal	sex organ	
D. a male who is sterile bu	ıt have female bo	ody characteristics	
22 is a heritable blood cells.	disease characte	erized by an abnormal	shape of the red
A. Anaerobiosis			
B. Haemophilia			
C. Sickle cell			

D. Rheumatism			
23. Sex cells are also called	cells		
A. somatic			
B. reproductive			
C. body			
D. none of the above			
24. When gametes from pure k tallness and shortness are invo generation are usually	olved in monohybrid		
A. purebreed			
B. heterozygous dominant			
C. homozygous recessive			
D. mutant			
26 character expres	sses itself in the prese	ence of a contrast	ing character.
A. A hybrid			
B. An allele			
C. A recessive			
D. A dominant			
27. A character which fails to e the second iss	express itself in the fir	st filial generation	but emerges in
A. heterozygote			
B. homozygote			
C. dominant in the first genera	ation		
D recessive in the first genera	ation		

28. The study of h	eredity is centred o	on the of a living ce	I.
A. cell wall			
B. nucleus			
C. cytoplasm			
D. vacuole			
29. In heredity,	controls growth	and development in eve	ery living thing.
A. RNA			
B. genes			
C. DNA			
D. cytoplasm			
30. The four bases	s of the DNA chain	are held together by	_ bonds.
A. hydrogen			
B. oxygen			
C. chlorine			
D. helium			
31. If a child can re	eceive blood from a	all donors, he belongs to	blood group
A. O			
B. A			
C. B			
D. AB	×est		
32. A gene which	expresses itself onl	y in the homozygous co	ndition is
A. a mutant			

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ormation.		
wing is not a purin	ne?	
chains of small c	chemical units calle	ed
	ving is not a purir	are determined by genes located or racter cannot be passed on directly wing is not a purine?

D. none of the above			
37. Haemophilia results fro	om the mutation of the genes i	esponsible for	
A. sex			
B. skin colour			
C. blood clotting			
D. the formation of haem	oglobin		
38 is a permanent character or give rise to a	change in DNA structure that r new character.	nay alter or destroy a	given
A. Genetic variation			
B. Genetic engineering			
C. Genetic mutation			
D. Genotype			
haemoglobin (SS), which child's haemoglobin?	aemoglobin (AA) marries a wo		
A. AA B. SS			
C. AO			
D. AS			
40. A sudden loss of blac	k pigment from the skin of an A	African can be attribu	ited to
A. a blending of black an	d white genes		
R a recombination of gov	200		

C. loss of the epidermis			
D. mutation in the skin cells			
41. The red blood cell is	_ in shape.		
A. star and biconcave			
B. spiral and convex			
C. round and biconcave			
D. oval and biconcave			
42. If a dark skinned woman children, how many of the ch			hey have four
A. 3			
B. 2			
C. 1			
D. 0			
43. Which of the following is	an example of a m	onohybrid inheritaı	nce in man?
A. Astigmatism			
B. Cretinism			
C. Hyperthyroidism			
D. Albinism			
44. The crossing of complete	ely unrelated strain	ns in animals is calle	ed
A. outbreeding			
B. inbreeding			
C. cross-linking			
D none of the above			

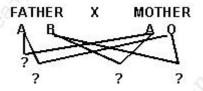
45. During blood tran	sfusion, agglutir	nation may occ	cur when	
A. antibodies react w	ith contrasting	antibodies		
B. antibodies react w	ith similar antig	ens		
C. white blood cells f	rom two individ	uals meet		
D. Two different antib	oodies react wit	h each other		
46. Which of the follo	wing statement	s is not correct	t about sex-det	termination?
A. Females alone det	ermine the sex	of a child.		
B. Males contribute a	an X or Y chromo	osome.		
C. Females contribut	e only the X ch	romosome.		
D. The sex of an indiv	vidual is determ	ined by males.		
alst'				
47. In which of the fol	lowing is the kn	owledge of ge	netics not appl	icable?
A. Development of hi	gh-yielding vari	ieties of seeds.	. *\$X60.	
B. Preservation of se	eds.			
C. Development of e	arly maturing se	eds.		
D. Development of m	ore healthy vari	ieties of seeds.		
48. Which of the follo shaped red blood cel		e caused by th	ne destruction (of abnormal
A. Rheumatism				
B. Malaria				
C. Anemia				
D. Haemophilia				

49. The set of rules by living cells is known as	y which DNA and RNA molecules carry gess	netic information in
A. chromosome		
B. heredity		
C. genetic code		
D. replication		
50. Which one of thes	se is not a form of energy?	
A. Solar energy		
B. Sound energy		
C. Mechanical energy		
D. Conversion energy	, com restriction	
51. The offs	pring combines the best qualities of both	parents.
A. crossbred		
B. inbred		
C. selective bred		
D. pure bred		
52. Males have	_ chromosomes while females have	chromosomes.
A. XY, XX		
B. XX, XY		
C. XX, XX		
D. YY, XX		
	o is heterozygous for a particular charac xpressed is described as	ter, the hereditary
A. allele		

B. sickle-cell gene			
C. dominant gene			
D. chromosome			
53. In an individual who is he factor that is always express		ar character, the	hereditary
A. allele			
B. sickle-cell gene			
C. dominant gene			
D. chromosome			
55. When the cell is about to	o divide, the chromatids b	ecomes as s	strands.
A. more visible			
B. more colourful			
C. thinner			
D. absent			
56. Albinos lack the enzyme production of melanin.	called and so cannot	ot secrete tyrosir	ne for the
A. cellulase			
B. tyrosinase			
C. trypase			
D. lactase			
57. Which of the following st chromosomes?	atements best explains th	ne meaning of ho	mologous
A. Product of division of chi	romosomes		
B. Two identical chromosom	nes each derived from one	e parent	
C. Chromosomes arranged	on spindle fibre during ce	ell division	

D. All the chromosomes in a hybrid

58. From the cross showing the inheritance of blood groups, which of the following offspring does not belong to the father?



- A. AA
- B. AO
- C. OB
- D. 00
- 59. When two heterozygotes mate, the dominant trait will appear in _____
- A. the F1 generation only
- B. the F2 generation only
- C. both the F1 and F2 generations
- D. neither F1 nor F2 generation
- 60. If R and r donate the genes for a character, the offspring of the cross between RR and Rr are _____.
- A. RR, 2Rr, rr
- B. 2RR, 2rr
- C. 2RR, 2Rr
- D. 4Rr
- 61. The structure of the DNA is ____ in shape.
- A. circle
- B. triangle

C. square		
D. helical		
62. Which of the following characters	s is not sex-linked?	
A. Albinism		
B. Skin Colour		
C. Haemophilia		
D. Colour blindness		
63. Genetic counselling is important	when a marriage is planned b	etween a
A. Rh woman and Rh+ man		
B. Rh woman and Rh man		
C. Rh⁺ woman and Rh⁺ man		
D. Rh⁺ woman and Rh man		
A Sille		
64. In Mendel's experiments, it was dimonohybrid cross between a brown the gene for the	3 0.	
A. brown colour was recessive		
B. white colour was dominant		
C. brown colour was dominant		
D. white colour did not combine		
65. In man, the ability to roll the tong	ue is a variation.	
A. anatomical		
B. physiological		
C. structural		
D. morphological		

66. Guanine always joins	base.			
A. thymine				
B. cytosine				
C. adenine				
D. thiamine				
67. A pair of genes which	control a trai	t is described	as	_•
A. dominant				
B. recessive				
C. allele				
D. variant				
68. The haploid number of	of chromosom	nes in man is	·	
A. 23				
B. 46				
C. 42				
D. 24				
69. The most common me Syndrome (AIDS) is	eans of transr 	mitting the Acq	uired Immune	Deficiency
A. through cuddling a na	ked baby			
B. through blood transfu	sion			
C. through sexual interco	ourse			
D. through the sharing of	f needles			

70. In the structure	of RNA, uracil pai	rs with		
A. cytosine				
B. thymine				
C. guanine				
D. adenine				
71. Genes are made	up of a long chai	n of		
A. RNA				
B. tRNA				
C. DNA				
D. all of the above				
72. If a man of bloo following will be in			d group O, which	one of the
A. AB				
B. OO				
C. AA				
D. AO				
73. The F ₁ of a mongeneration, how ma		ween a tall and dwa s will be dwarf?	rf plant was tall. I	n the F ₂
A. 30				
B. 60				
C. 90				
D. 120				
	Xe3			
74. The carrier of th	ne hereditary chara	acters in plants and	in animals is the	·
A. gene				

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B. nucleus		
C. chromosome		
D. chloroplast		
75. Heredity is the transmissic	on of inherited characters from	m parent to offspring via
A. gene		
B. hybrid		
C. vigour		
D. gamete		

TOPIC: EVOLUTION

DIRECTION: Choose the correct answer from the lettered options.

1. Long neck in giraffe is used t	to illustrate the theory of	
A. use and disuse		
B. origin of species		
C. origin of life		
D. natural selection		
2. Which of the following fields	of study cannot yield str	ong evidence of evolution?
A. Fossil		
B. Histology		
C. Ecology		
D. Genetics		
3. Which one of the following is	s not a castes of the hone	ey bee?
A. Queen		
B. King		
C. Drone		
D. Workers		
4. The drones in the colony of	the honey bees are	CON.
A. sterile females		
B. reproductive female		
C. males		
D. completely sterile male		
200		
5. The following are structural a	adaptations of a bony fish	n to life in water except

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A. a streamlined bod	y shape		
B. overlapping scales	3		
C. gills			
D. a tail and tail fins			
6. Which of the follow	ing has the most pring	mitive respiratory system	?
A. Rat			
B. Fish			
C. Toad			
D. Grasshopper			
7. When the original k	ing and queen of ter	mites die, they are replac	ced by
A. the king and quee	n of another colony		
B. One or more seco	ndary reproductive fi	rom the same colony	
C. some adult worker	rs, which are specially	y fed to breed	
D. some mature sold	iers nurtured as seco	ondary reproductive	
8. Which one of the fo	ollowing is not a coel	enterate?	
A. Hydra			
B. Tarantula			
C. Jelly fish			
D. Physalia			
9. The following are a drought except		f plants for the conservat	ion of water during
A. spines			
B. bright coloured flo	owers		

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C. succulent stems		
D. deep roots		
10. The pedipalp in spide	rs is used for	
A. breathing		
B. growing		
C. feeling		
D. web spinning		
11. Plants growing in arid I	and are called	
A. xerophytes		
B. hydrophytes		
C. hygrophytes		
D. none of the above		
12 laid down the	basis for genetic studies.	
A. Thomas Morgan		
B. Gregor Mendel		
C. Charles Darwin		
D. Robert Hooke		
13. Which one of the follo photosynthesis?	wing is not associated with the che	emistry of
A. 4H2O -> 4H + 4OH		
B. C6H12O6 -> 2C2H2OI	H + 2CO2	
C. CO2 + 4H -> CH2O + I	H2O	
D 40H > 2H20 ± 02		

14. Examples of competitors in animals are	and
A. lizard, mouse	
B. snake, bird	
C. grasshopper, mouse	
D. cheetahs, lions	
15. Which of the following corresponds with t which organism survives and reproduce?	he idea that the environment determines
A. The theory of acquired characters	
B. Jean Lamarck's theory of use and disuse	
C. Survival of the fittest	
D. Fossil records	
16. Carnassial teeth are characteristic of	_ mammals.
A. omnivorous	
B. herbivorous	
C. carnivorous	
D. none of the above	
17. Birds have feathers on their body that is u	used for
A. flight	
B. beautification of the bird	
C. regulation of body temperature	
D. reproduction and hatching of egg	
18. Which of the following sets of organisms r to complex structural organization?	epresents the correct trend from simple

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1. Mollusca; 2. Platyhelminthes; 3. Nematode; 4. Protozoa.

- 19. The possession of bright colours by an insect functions as _____.
- A. a means to secure the opposite sex
- B. decoration
- C. pollinating agent
- D. a means to distract predators
- 20. In the illustration below, the hawk is _____.



- A. a scavenger
- B. a primary consumer
- C. a tertiary consumer
- D. an omnivore
- 21. Which of the following habitats cannot be used for the study of succession?
- A. A savanna grassland
- B. An abandoned farmland
- C. A pond
- D. A well cultivated land

22. Which one of the follow	ring plants store water in t	their stems?	
A. Cactus			
B. Bryophyllum			
C. Portulaca			
D. Casuarina			
23. Insects show considera	ble power of water conse	ervation due to the fact	t that
A. the chitinous cuticle is i	mpregnated with tanned լ	proteins	
B. nitrogenous waste is elim	minated as urea		
C. chitin is impermeable to	water		
D. the malpighian tubules a	are impermeable to water		
24. Which of the following h	nelps birds maintain their	body temperature?	
A. Blood, which maintains of	constant temperature.		
B. Feathers, which cover the	ne body.		
C. Skin, which conserves m	noisture.		
D. Veins, which transport fl	uid of constant temperati	ure to all body tissues.	
25. Which one of the follow	ing insects is not a social	animal?	
A. Fly			
B. Termite			
C. Bee			
D. Ant			
26. What ecological conditi	ion favours the breeding o	of black flies?	
A. Fresh water habitat			
B. Water in ponds and swa	mps		
C. Water in small container	rs		

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D. Fast flowing streams			
The correct answer is option	n [B]		
27. Which of the following fr	uits is a schizocarp?		
A. Groundnut			
B. Desmodium			
C. Crotalaria			
D. Cashew			
28. The blind and sterile fem	nales are the in th	ne castes of termites.	
A. soldiers			
B. queen			
C. king			
D. workers			
29. Which one of the followi	ing does not have hoc	of or horn?	
A. Porcupine			
B. Deer			
C. Goat			
D. Horse			
30. The amount of water los	ss from a leaf can be d	detected using	
A. red litmus paper			
B. pink cobalt chloride pape	er		
C. blue litmus paper			
D. blue cobalt chloride pap	er		

	tion in which an organism possesses spec nances of surviving successfully in its envi	
A. Behavioral adaptation		
B. Structural adaptation		
C. Evolutional adaptation		
D. Physical adaptation		
32. The evidence for can be obta	ained from one of the following except	·
A. fossil		
B. anatomy		
C. history		
D. embryology		
33, a British biologist in 185	59 propounded a theory of organic evolut	ion.
A. Charles Darwin		
B. Theodore Schwann		
C. Jean Baptist Lamarck		
D. Hugo de Vries		
34. The stinging and biting mecha	anism of some animals are for	
A. feeding		
B. defence		
C. movement		
D. all of the above		
05.4.00		
35. Animals aestivate when the ei	nvironment in which they live becomes _	and

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A. hot and dry				
B. cold and wet				
C. warm and humid				
D. windy and snowy				
36. One of the major that	criticisms agai	nst Mendelian la	iws is that they c	lo not recognise
A. One trait is often of	controlled by m	nany pairs of ger	nes	
B. single factor inher	itance is never	a reality		
C. complete dominar	nce is always p	ossible		
D. incomplete domin	ance is not po	ssible		
37. The nature of the	mouth parts o	f dragonfly is	·	
A. probosis				
B. mandibulate				
C. rostrum				
D. cilliate				
38, and	are adaptiv	e features of pla	ants to desert co	onditions.
A. Thick barks, succu	lent stems and	d sunken stomat	a	
B. Thin barks, succule	ent stems and	sunken stomata	-Office	
C. Thin barks, air floa	ts on stems ar	nd sunken stoma	ıta	
D. Air spaces in tissu	es, adventitiou	ıs roots and thic	k barks	
39. Who formulated t	he theory of na	atural selection i	n evolution?	
A. Louis Pasteur				
R Charles Darwin				

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C. Jean Lamarck		
D. Mathias Schneider		
40. Which one of the following	g plants do not possess succulent st	em?
A. Euphorbia		
B. Cactus		
C. Casuarina		
D. Baobab tree		
41. Animals living in dry places their body.	s develop on their skin to preven	t water loss from
A. feathers		
B. hairs		
C. scales		
D. pores		
42. The feeding mechanism o	of an ant is	
A. biting and sucking		
B. sucking		
C. biting and chewing		
D. squeezing and swallowing		

43. The table is a punnett square for sex determination in man.

Which of the following determines a normal male offspring?



- A. X
- B. Y
- C. XX
- D. XY
- 44. Failure of species to adapt to any environment may lead to _____.
- A. domination
- B. competition
- C. stunted growth
- D. extinction
- 45. Insects have very hard chitinous externally located skeleton called _____.
- A. endoskeleton
- B. exoskeleton
- C. ectoskeleton
- D. all of the above
- 46. The type of vegetation of a particular habitat is affected by the following except
- A. nature of soil particles
- B. amount of rainfall
- C. mineral content of the soil
- D. depth of the water table

47 is a behavioural adaptation inactive condition.	on in which some animals spe	end hot weather in
A. Aestivation		
B. Hibernation		
C. Nuptial flight		
D. Tunnelling		
48. Which one of the following is a	type of adaptation possesse	ed by organisms?
A. Counter shading		
B. Warning		
C. Mimicry		
D. All of the above		
49. In the geologic time table, the I	Mesozoic era is the age of _	
A. mammals		
B. marine reptiles		
C. ancient life		
D. none of the above		
50. The spines and scales of porcu	upine and scaly anteater are	structures used for
A. excretion of waste matter		
B. defence against predators		
C. basking		
D. mating and reproduction		
51. Which of the following is not a h	nerbivore?	
A Longhorn heetle		

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B. Ant			
C. Honey bees			
D. Dragonfly			
52. Which one of the follow	ving animals does not l	have scales?	
A. Lizards	9		
B. Snakes			
C. Tortoises			
D. Crocodiles			
53. The gradual, cumulative long period of time resulting		-	-
A. adaptation			
B. survival			
C. organic			
D. variation			
54. The beak of the	is strong, short and	conical.	
A. sunbird	C.		
B. parrot			
C. hen			
D. weaver bird			
D. Weaver bild			
55. A green snake in a gree because of its	n grass is able to esc	ape unnoticed from	predators
A. disruptive colouration			
B. counter shading			

C. warm colouration		
D. cryptic colouration		
57. According to Charles Darwin's survival of the	s theory of evolution, natural sele	ction involves the
A. weakest		
B. most populous species		
C. youngest		
D. fittest		
59. What is the function of the ma	ale adult honey bee?	
A. To clean the hive.		
B. To ventilate the hive.		
C. To mate with the queen.		
D. To care for the young.		
60. The behavioural adaptation in inactive condition is known as		ld season in
A. burrowing		
B. aestivation		
C. hibernation		
D. all of the above		
61. Charles Darwin's theory on is b	based on	
A. adaptation		
B. genetic drift		
C. mandolin inheritance		

D. natural inheritance	
62. The wing of a bat and that of a bird are examples of	d, the flippers of a whale and the fins of a fish
A. adaptive radiation	
B. vestigial structures	
C. divergent	
0	
D. convergent	
63. The rate of is not affected by	
A. embryology	
B. natural selection	
C. gene flow	
D. genetic drift	
64. In ecology, the transect method ca	
A. number of plants and animals in an	area
B. population of a particular plant spe	cies
C. number and types of plants in an a	rea
D. heights of trees in a section of a fo	rest
65. Hormones are	
A. secreted into the blood through du	icts
B. secreted directly into the blood str	eam
C. inactive chemical substances in the	e blood stream
D non-specific in their mode of action	

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- 66. Which of the following is one of the Lamarck theories?
- A. Some variations are more variable to existence in a given ecological environment than others.
- B. All living organisms are constantly involved in a struggle for existence.
- C. The size of a given population remains fairly constant.
- D. New species originate through the inheritance of acquired traits.
- 67. ____ are long preserved remains or imprints of organisms that once lived.
- A. Fossils
- B. Skeletons
- C. Bones
- D. None of the above
- 68. In contrast to the more recent fossil bearing rocks, the older fossil bearing rocks are more likely to contain ______.
- A. animal remains than plant remains
- B. invertebrates rather than vertebrates
- C. flowering plants rather than smaller vertebrates
- D. protozoans rather than fishes
- 69. Which of the following represents the evolutionary sequence in these plants? 1. Flowering plants; 2. Ferns; 3. Mosses; 4. Algae; 5. Conifers.

individual, it passes through n simply because the mechanis	nany embryonic stages th	at its ancestors underwent	MS
ancestor?			
A. cytology			
B. embryology			
C. fossilization			
D. none of the above			
71. Fossil records found in second because	dimentary rocks offer som	e explanation for the theo	ry o
A. the deposits have remains formed	of the organism's charac	teristic of when they were	
B. different strata have remai	ns of organisms of the sai	me kind	
C. only organisms with strong	g parts are fossilized		
D. animal and plant fossils for	und, still had some physic	al resemblance to the livin	g
organism			
72. Which of the following is r	not an evidence supportin	g organic evolution?	
A. Comparative anatomy			
B. Vestigial organs			
C. Mutation			
D. Fossils			
73. Homologous structures ca	an be used to explain the	evidence of	
A. comparative anatomy	D. S.		
B. fossils			
C. vestigial organs			
-01,			
D. genetics and man			

74. Darwin is considered th	e first scientist who co	orrectly explained the	e theory of
A. special creation			
B. spontaneous generation	ı <u>"o</u> st"		
C. use and disuse			
D. organic			
75. The praying mantis feed	ds on		
A. leaves			
B. fluids			
C. insects			
D. flowers			
76. Which one of the follow	ving sets are the final p	roducts of aerobic r	espiration?
A. Water, carbon dioxide a	nd energy		
B. Water, carbon dioxide a	nd pyruvic acid		
C. Glucose, energy and ure	ea		
D. Carbon dioxide and ene	ergy		
77. The scientific name for	the "flame of the fores	t" plant is	
A. Hibiscus esculentus			
B. Vernonia sp.			
C. Aloe sp.			
D. Delonix regia			
78 is the series of undergone in response to lives.	_		_
Δ Evalution			

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B. Development		
C. Growth		
D. Adaptation		
79. In tapeworms, sucke	ers on the scolex are used for	
A. sucking the blood of	the host	
B. holding fast to the ho	ost	
C. reproduction		
D. gaseous exchange		
80. Which of the following selection?	ng is not one of Darwin's deductions c	oncerning natural
A. Food and other need	ds are abundant.	
B. There is a fierce com	petition among offsprings.	
C. The weaker offspring	gs are eliminated.	
D. Nature selects those	that will survive to reproduce their kir	d.
81. The phylum Arthropo	oda is full of members that and _	·
A. bite and chew		
B. sting and bite		
C. sting and chew		
D. pierce and suck		
82. Which of the following	ng parts of the tongue is sensitive to s	ugar?
A. Tip		
B. Back		
C. Right side		

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	11.0	. C.		- 1	
D.	- 4	$\neg \tau \tau$	വ	\sim	$^{\sim}$
LJ.		71 L	വ	u	$\overline{}$

- 83. _____ postulated the concept of use and disuse of organs.
- A. Charles Darwin
- B. Jean-Baptiste Lamarck
- C. Gregor Mendel
- D. Alfred Russel Wallace

TOPIC: HORMONAL COORDINATION

DIRECTION: Choose the correct answer from the lettered options.

1. IAA is the most abundant n	atural auxin manufac	ctured in plants and	it stands for
A. indoleacetyl acid			
B. indoleacetate acid			
C. indoleacetic acid			
D. indoaldyhide acid			
The correct answer is option	[C].		
2. Which of the following is a	hormone secreted b	by the pituitary gland	! ?
A. Oxytocin			
B. Thyroxine			
C. Parathormone			
D. Thyroid			
3. Increase in blood sugar lev	vel stimulates the pro	oduction of	
A. insulin			
B. oestrogen			
C. progesterone			
D. prolactin			
4. Which of these is not a fun	nction of the liver?		
A. Storage of blood			
B. Secretion of hormone			
C. Detoxication			

D. Production of heat

5. What organ is located jus	t below the diaphrag	ım?	
A. Kidney			
B. Liver			
C. Stomach			
D. Heart			
6. The is the largest in	ernal organ of a hum	nan.	
A. liver			
B. stomach			
C. skin			
D. lungs			
7. The endocrine system act	is		
A. swiftly and slowly			
B. chemically and swiftly			
C. slowly and chemically			
D. internationally and chem	ically		
8. The abscisic acid is a plan	nt produced i	n matured,	and
A. hormone, green leaves, f	ruits, root cap		
B. sap, green, leaves, roots			
C. secretion, leaves, barks,	stem		
D. excretion, leaves, barks, f	ruits		
9. Pituitary gland is also refe	erred to as the	gland.	
A. thyroid			
B. master			
Coordinata			

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D. effector		
10. Endocrine hormone molec	cules are secreted directly into the	e
A. neuron		
B. exocrine gland		
C. blood stream		
D. neuron-reflex		
11. Which of the following is n	ot a role of auxins?	
A. Abscission		
B. Cell division		
C. Fruit development		
D. Leaf formation		
A. S. Marie		
12. Over secretion of insulin le	eads to blood sugar level.	
A. an increase in		
B. a fall in		
C. an average		
D. a constant		
13. The hormone that regulate	es the growth of the body is known	n as hormone.
A. adrenalin		
B. pitocin		
C. prolactin		
D. somatotropic		
14 Hormones are		

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A. inorganic chemicals secrete and fat metabolism in the body	ed by the pancreas, central to re	egulating carbohydrate
B. chemical substances secret	ted by endocrine glands in resp	onse to various stimuli
C. organic materials that aid d	igestion of food substances	
D. reproductive chemicals sec	reted to aid parturition	
15. Which of the following is no	t a plant hormone?	
A. Cytokines		
B. Cytotoxins		
C. Auxins		
D. Abscisic acid		
16. Contraction of the uterus m hormone.	nuscles during child birth is a fu	nction of
A. oxytocin		
B. gonadotropic		
C. thyroxin		
D. adrenalin		
17. Endocrine glands release th	neir secretions directly into the .	·
A. blood stream		
B. ducts		
C. heart		
D. intestines		
18. Adrenaline gland is located	at the	
A. left part of the kidney		
B top of the kidney		

C. right-side of the kidney		
D. middle of the brain		
19. Gastrin is secreted in the	_	
A. hand		
B. eye		
C. stomach		
D. brain		
20. Testosterone and androsteron	ie are hormones located in the ₋	xe ⁵ ~
A. penis		
B. testes		
C. scrotum		
D. anus		
21. Cytokinins and auxins act toget	ther to promote the replication o	of
A. RNA		
B. IAA		
C. DNA		
D. mRNA		
22 brings about ageing in	leaves.	
A. Cytokinins		
B. Auxins		
C. Abscisic acid		
D. Gibberellins		
23. Ethene gas is produced in	. and .	

A. the hands, legs, head	d	
B. blood, water, finger		
C. leaves, stems, young	g fruits	
D. stems, sticks, leaves		
24. The testis is located	d in the	
A. scrotum		
B. boxers		
C. prostate gland		
D. rectum		
25. Hormones are subs	tances that are in nat	ure.
A. electrical		
B. chemical		
C. civil		
D. mechanical		
26. How does the nervo	ous system act?	
A. Swiftly, instant and e	electronically	
B. Slowly, instantly and	electrically	
C. Swiftly, instantly and	l electrically	
D. Swiftly, instantaneou	usy and electrifyingly	
27. Excessive developm caused by excess	nent of sexual organs and sec 	condary sex characters in men is
A. thyroxine		
B. hormone		
C. testosterone		

D. blood		
28. Over secretion of the	pituitary growth hormone leads to	
A. gigantism		
B. obesity		
C. dwarfism		
D. anorexia		
29. Where is the pituitary (gland located?	
A. Abdomen		
B. Head		
C. Mid-brain		
D. Kidney		
A SHO		
30. Which of the following	ι is a plant hormone?	
A. ADH		
B. Growth hormone		
C. Ethene		
D. Calcitonin		
31. Hormones are produce	ed by	
A. ductless glands		
B. glands with ducts		
C. all glands		
D. ductal gland		
32 is one of the di	iseases of the kidney.	
A Malaria		

B. Fever		
C. Yellow fever		
D. Diuresis		
33. Root growth in stem cu	uttings is promoted by hormones.	
A. True		
B. False		
34. In plants, hormones are	e manufactured in the following except	
A. apical meristems of root	ts and shoots	
B. young growing leaves		
C. developing seeds or fru	uits	
D. bright coloured flowers		
alshir.		
35. Rapid stem elongation	in dwarf plants is stimulated by	
A. cytokinins		
B. gibberellins		
C. auxin		
D. thyroxin		
36. Plants produce hormor	nes only in the	
A. parts exposed to sunligi	ht	
B. parts in the soil		
C. growing parts		
D. recessive part		
37. Gibberellins are produc	ced in	
A. young foliage leaves		

B. mature leaves			
C. fruits			
D. seedlings			
38. An example of a	synthetic auxin is	· ^	
A. 2, 4,-D			
B. 2, 6,-D			
C. 2, D			
D. 2, DD			
39. Hormones are _			
A. inorganic substa	inces		
B. sensory recepto	rs		
C. physical messen	igers		
D. organic substan	ces		
40. Exocrine glands	release their cher	nicals into	
A. vein			
B. duct			
C. blood streams			
D. arteries			
41. Oestrogen is sed	creted in the		
A. sperm			
B. ovum	xest.		
C. ovary			

D. fallopian tube

42. Together with the nerverse system.	ous system, the endocrine syst	tem forms a combined
A. neuro-endocrine		
B. neuro-exocrine		
C. neuro-crine		
D. nerve-end		
43. The adrenal gland secr	etes hormone.	
A. thyroxine		
B. oxytocin		
C. prolactin		
D. adrenaline		
44. One of the effects of a	bscisic acid is that	
A. it suppresses the growt	:h of buds	
B. it increases the growth	of buds	
C. it encloses the height of	of buds	
D. allows all kinds of growt	th	
45. Adrenaline hormone is	produced by the following stin	nulations except
A. fright		
B. anger		
C. stress		
D. laughter		

46. Which of the following	is produced during ovula	ation?	
I Progesterone			
II Testosterone			
III Adrenaline			
A. I and II only			
B. III only			
C. I only			
D. II and III only			
47. What organ is responsi	ble for the metabolism of	f food substances	;?
A. Kidney			
B. Stomach			
C. Liver			
D. Lungs			
48 is a growth inhib	itor whose effects genera	ally oppose those	of auxins.
A. Gibberellins			
B. Abscisic acid			
C. Cytokinins			
D. Hormone			
49 is not a plant h	normone.		
A. Auxin			
B. Parathormone			
C. Gibberellins			

- D. Cytokinins
- 50. In animals, hormones are manufactured in the _____
- A. endocrine glands
- B. blood stream
- C. gastrointestinal tract
- D. lungs

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TOPIC: NERVOUS COORDINATION

DIRECTION: Choose the correct answer from the lettered options.

1. The part of the nervous syste	em that interprets blinking of the o	eye is the
A. spinal cord		
B. cerebrum		
C. hind brain		
D. olfactory lobe		
2. The brain is made up of	_ main parts.	
A. 4		
B. 2		
C. 1		
D. 3		
3. From the following options, s	sensory receptors are often found	d in theand
A. ear, eye		
B. bones, arteries		
C. blood, bones		
D. eye lashes, teeth		
4. Which one of the following is	not a reflex action?	
A. Coughing		
B. Sleeping		
C. Sneezing		
D. Blinking		

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5. The cerebrum and olfactory lo	bes are parts of the	
A. forebrain		
B. hindbrain		
C. midbrain		
D. medulla		
6. The complex network that coo is the system.	ordinates the various activities of multi	icellular animals
A. respiratory		
B. skeletal		
C. muscular		
D. nervous		
7. The hypothalamus functions in	the regulation of all except	
A. water balance		
B. sleep		
C. blood pressure		
D. voluntary actions		
8. Sensory receptors also acts as	S	
A. information		
B. information collectors		
C. informal collections		
D. collectors		

9. The complex network that coordinat is the system.	tes the various activities of m	ulticellular animals
A. respiratory		
B. skeletal		
C. muscular		
D. nervous		
10. The brain and spinal cord make up	the nervous system.	
A. peripheral		
B. autonomic		
C. central		
D. somatic		
11. Sensory receptors also acts as	·	
A. information		
B. information collectors		
C. informal collections		
D. collectors		
12. Axons are referred to as		
A. nerve fibres		
B. muscle fibres		
C. skeletal cells		
D. hormones		

13. The nervous system of verteb	rates consist of the
A. central nervous system (CNS)	and peripheral nervous system (PNS)
B. center nervous system and up	per nervous system
C. terrestrial nervous systems an	d aquatic nervous system
D. sensory nervous system and n	notor nervous system
14. The brain is made up of	main parts.
A. 4	
B. 2	
C. 1	
D. 3	
15. The basic structural unit of the	e nervous system is the cell.
A. neutron	
B. electron	
C. nephron	
D. nerve	
16. A bundle of long nerve fibres i	s called
A. fabric	
B. fibrings	
C. nerves	
D. nervous	
17. The spinal nerves and cranial	nerves are part of the
A. digestive system	
B. central nervous system	
C paripharal parvous system	

D. circulatory nervous system		
18. The spaces between neuron chemical reaction are called	nes through which impulses 	are sent by means of a
A. axons		
B. ganglia		
C. synapses		
D. dendrites		
19. What are the different types	of neurons?	
A. Senses, motor and associate		
B. Sensory, association and mo		
C. Association, sensed and mo		
D. Motor, sensed and associate	es neurons	
20. The two small structures pla	aced anteriorly on the cereb	orum are called
A. fibres		
B. olfactory lobes		
C. corpus callosum		
D. thalamus		
21. An automatic response of th	ne body to a stimulus is kno	wn as
A. a voluntary action		
B. an involuntary action		
C. an automatic action		
D. an accidental action		

22. The meninges in the brain res	ponsible for protecti	on of the brain is k	nown as
<u>acc.</u>			
A. dura mater			
B. arachnoid mater			
C. pia mater			
D. none of the above			
23. The cerebrum and olfactory lo	obes are parts of the		
A. forebrain			
B. hindbrain			
C. midbrain			
D. medulla			
24. Reading the verdict of a case	by a judge or magist	trate is an example	of
A. a reflex action	200	200	
B. an instinct			
C. a conditioned reflex			
D. a voluntary action			
b. a volantary action			
OF I	formed from the conservation		
25. In a mammal, stimulus is trans nervous system through the	:	ptor muscle to the	central
A. motor neurons			
B. effector muscles			
C. dendrites			
D. sensory neurons			
26 is the largest part of	the brain.		

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A. Forebrain		
B. Cerebellum		
C. Cerebrum		
D. Medulla oblongata		
27. Nervous system passes mes	sages mainly as alc	ong nerves.
A. electrical impulses		
B. manual impulses		
C. mechanical impulses		
D. blood impulses		
28 stimulates secretion	from the salivary gland and	d the constriction of the iris
A. Somatic nervous system		
B. Parasympathetic nervous sys	stem	
C. Cranial nerves		
D. Spinal cord		
29. The response to the source perceived is	of the reflex action "salivat	tion" when food is
A. eating the food		
B. staring at the food		
C. flow of saliva		
D. flow of salivate		
30. The part of the nervous syst	tem that interprets blinking	of the eye is the
A. spinal cord		
B cerebrum		

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C. hind brain		
D. olfactory lobe		
31. The hypothalamus functions	s in the regulation of all except	, OS
A. water balance		
B. sleep		
C. blood pressure		
D. voluntary actions		
32. In voluntary action, sensory the	nerves send impulses to the spinal co	ord and then to
A. brain		
B. thalamus		
C. cranium		
D. pons varolli		
33. The following make up the f	forebrain except	
A. olfactory lobes		
B. cerebrum		
C. hypothalamus		
D. cerebellum		
34. The brain and spinal cord a	re part of the	
A. endocrine system		
B. circulatory system		
C. nervous system		
D. skeletal system		

	ing options, sense	ory receptors a	re often found in the	e arri
and	<u> </u>			
A. ear, eye				
B. bones, arteries				
C. blood, bones				
D. eye lashes, teetl	n			
36. The nervous sys	stem is divided in	to parts.		
A. 3				
B. 4				
C. 2				
D. 6				
37. The centre of le	earning and memo	ory in the humar	n brain is the	
A. medulla oblonga		-50		
B. cerebellum				
C. cerebrum				
D. olfactory lobe				
21 chaotory love				
38. The centre for s	sensation of pains	s touch and and	ver is the	
A. spinal cord	orioditori or pairie	,, todon dna dng	901 10 tile	
B. thalamus				
C. grey matter				
D. cortex	×62			
39 detects s	stimuli from the ex	ternal and inter	nal environment.	
A. Sensory givers				

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B. Sensory banners			
C. Sensory receptors			
D. sensory organelles			
40. The nervous system consi	sts of parts.		
A. 3			
B. 2			
C. 4			
D. 6			
41. The stimulus receiver in the	e body is called the	30	
A. sensory nerve			
B. motor nerve			
C. receptor organ			
D. spinal cord			
·			
42. What is coordination?	STO		
A. It is the arrangement of cel	l, tissue, organ and sy	stem in the body.	
B. It is the process by which defectiveness.	lifferent parts of an or	ganism work toget	her for proper
C. It is the aligning of various functioning.	organs of the body, he	ence ensuring prop	per body
D. It is the electrical collation	of the nervous tissues	s of the body.	
43. Voluntary actions are			
A. reflex actions			
B. resident in the neck			
C sations in the fore limbs			

D. anticipated actions		
44. The central nervous system consists of	of the and	
A. brain, spinal cord		
B. head, spinal cord		
C. arteries, brain		
D. sense organs, nerves		
45. In a typical nerve cell, electrical activit	y generated is generated at	the
A. myelin sheath		
B. dendrites		
C. axon		
D. node of Ranvier		
46. This structure can be found in the	<u> </u>	
L winds		
3 +		
ASS TE		
A. sympathetic and parasympathetic nerv	ous systems	
B. peripheral and central nervous systems	•	
C. peripheral nervous system only		
D. central nervous system only		
47. One of the functions of a neurone is _	XO	
A. only receiving nerve impulses		
B. receiving and transmitting impulses		
C. giving out reflex action		

D. the total actions in the body		
48. What is a neurone?		
A. It is the entire structure of the c transmission of nerve impulses.	central nervous system re	esponsible for the
B. It is the organized part of the breezeiving sensory information.	rain and spinal cord that	is responsible for only
C. It is the basic unit of nervous sy impulses within the body.	ystem which is responsib	ole for the transmission o
D. It is the actual point of transmis	ssion of impulses within t	he body.
49. The central nervous system co	onsists of the and _	
A. fore and hind		
B. brain and spinal cord		
C. sensory and motor		
D. nerves and spinal cord		
•		
50. The system passes me	essages as chemical sub	stances in the blood.
A. nervous	350	
B. digestive		
C. circulatory		
D. endocrine		
51. The is the centre for cont	rolling body temperature	in the brain.
A. cerebrum		
B. cerebellum		
C. medulla		
D. hypothalamus		
All A		

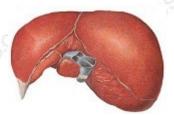
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TOPIC: REGULATIONS OF INTERNAL ENVIRONMENT (HOMEOSTASIS)

DIRECTION: Choose the correct answer from the lettered options.

 Which of the following are components of glomerular filtra 	۱. ۱	Which	of the	following	are com	ponents o	of alomeru	lar filtrate	?
--	------	-------	--------	-----------	---------	-----------	------------	--------------	---

- A. All the components of blood except mineral salts
- B. Blood cells, amino acid, salts and nitrogenous wastes
- C. All the components of blood except plasma protein and cells
- D. Plasma proteins, red and white blood cells
- 2. Which one of the following is an effect of hepatitis?
- A. Yellowing of eyes and skin
- B. Bulimia nervosa
- C. Anaemia
- D. Indigestion
- 3. What is the name of this organ?



- A. Kidney
- B. Leg
- C. Liver
- D. Hand
- 4. The cup-shaped part of the Bowman's capsule contains the ____.

A. nephridium		
B. glomerulus		
C. loop of henle		
D. nephron		
5 is a stimulus that cann	not be perceived through the sl	kin of mammals.
A. Light		
B. Pressure		
C. Pain		
D. Heat		
6. The solute concentration of	f blood rises when we	·
A. sweat profusely		
B. eat very little salt		
C. drink plenty of water		
D. shiver		
7. Which of the following endo	ocrine glands is a master gland	?
A. Pituitary gland		
B. Thyroid gland		
C. Pancreas		
D. Ovary		
8 is the ability of an org	ganism or cell to maintain interr ocesses.	nal equilibrium by
A. Hemoglobin		
B. Hydrogen		
C. Hormone		

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D. Homeostasis			
9. Water balance in	the body is one of	f the functions of the	
A. liver			
B. brain			
C. hypothalamus			
D. kidney			
10. Body fluids inclu	ıde,	and	
A. blood, lymph, int	ercellular fluid		
B. body tissues, org	gans, blood		
C. fingers, water, sv	veat		
D. urine fluid, uric a	acid, sweat		
X			
11. Aldosterone is a	hormone from the	cor.	
A. liver			
B. adrenal cortex			
C. thyroid cortex			
D. lungs			
12 wastes	s are removed by t	he kidney.	
A. Oxygenous			
B. Nitrogenous			
C. Carbonated			
D. Phosphorous	XCST.		
13. Reduction of ch	olesterol intake is a	a remedy for	
A cancer			

B. gall stones		
C. kwashiorkor		
D. rickets		
14. The control mechanism of ke feedback mechanism.	eeping the osmotic pressure consta	ant is known as a
A. negative		
B. positive		
C. kinetic		
D. normal		
15. The skin is an organ for touc	h and	
A. excretion		
B. respiration		
C. temperature regulation		
D. sight		
16. The ability of organisms to m	naintain a constant internal environ	ment is known as
co _{lle}		
A. diuresis		
B. endosmosis		
C. plasmolysis		
D. homeostasis		
17. Blood vessels supply	to the tissues of the skin.	
A. blood		
B. water		
C. food and oxygen		

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D. vitamins				
18. The removal of ex	cess urine from t	the body through th	e kidney is called	XCO.
A. dialysis				
B. diuresis				
C. diabetes				
D. oedema				
19. The condition kno	own as myxoeden	na is caused by the	deficiency of	X
A. adrenalin		and the same of th		
B. vitamin A				
C. insulin				
D. thyroxine				
Š				
20. The control mec environment of an o		Large Colf	anges in the inter	nal
A. homeostatic				
B. hormonal				
C. regulatory				
D. internal				
21. The ha	as the overall con	ntrol over the home	ostatic processes	in the
A. spinal cord				
B. brain	×62			
C. bones				
D. muscles				

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22. The regulation	n of the internal en	nvironment of t	he body is terme	ed
A. hemolysis				
B. homeostasis				
C. plasmolysis				
D. regulation				
23. Keeping the o	smotic pressure c	constant is an e	example of a	process.
A. homeostatic				
B. internal				
C. hormonal				
D. regulatory				
24. What makes u	p the internal envi	ironment of an	organism?	
A. Urine, sweat ar	nd blood			
B. Body fluid				
C. Urine alone				
D. Water alone				
25. Which of the f	following is not a fu	unction of the	liver?	
A. Regulation of b	olood sugar			
B. Storage of bile	, allus.			
C. Formation of b	oile			
D. Breakdown of	excess amino acio	ds		
26. Hypothalamus	s is a small body ju	ıst above the $_$	gland.	
A ADH				

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B. pituitary			
C. endocrine			
D. thyroid			
27 animals maintai	n a constant body temp	erature.	
A. Endothermic			
B. Hexathermic			
C. All			
D. Exerthermic			
28. The mammalian skin o	consists of major la	ayers.	
A. 1			
B. 3			
C. 2			
D. 4			
29. The entire surface of	the body is covered by_		
A. hairs			
B. pores			
C. flesh			
D. skin			
30. How are kidney stone	es formed?		
A. They are formed when	n mineral salts in urine co	ome out of solution a	s solid crystals.
B. They are produced by as solid crystals.	the body when mineral a	acids in urine come o	out of solution
C. They are produced du	ıring body osmosis.		

D. They are required for proper kidney functioning.

31. The normal pH of	blood is	- Keo.		
A. 7.8				
B. 8.7				
C7.4				
D. 7.4				
32. Which one of the	se is not a homeo:	static mechanisı	m?	
A. Osmoregulation				
B. Excretion				
C. Respiration				
D. Acid base balance	e (0 ⁰¹⁾			
33. The is the lar	gest organ in the l	body.		
A. liver				
B. kidney				
C. skin				
D. sebaceous gland				
34 and are	produced at the I	hypothalamus.		
A. Anti-diuretic horm	none and oxytocin			
B. ADI and OXI				
C. Anti-durex hormo	ne and mammary l	hormone		
D. TSH and ADH				
35. Over secretion of a child to become		one during child	hood and adole	escence causes
A. gigantic				

B. dwarfic		
C. energetic		
D. short		
36. The increase in width of blood is known as	I vessels in the mammal's sk	in at high temperature
A. vasodilation		
B. sweating		
C. vasoconstriction		
D. shivering		
38. Bile is produced in the		
A. gall bladder		
B. pancreas		
C. spleen		
D. liver		
39. The acronym ADH stands for _	- St	
A. Anti-Dehydration Hormone		
B. Acute Dilation Hormone		
C. Anti-diuretic Hormone		
D. Another Dialated Hormone		
40 is the pigment that gives	the skin its colour.	
A. Melanin		
B. Tannin		
C. Cyanin		
D. Haem		

41. Diseases of the liver includes	the following except	·	
A. gallstones			
B. cancer of the liver			
C. nephritis			
D. hepatitis			
42. What is a kidney stone?			
A. It is a hard substance formed	in the liver; shaped as t	he kidney.	
B. It is a stony mass formed by n	nineral matter that form	in the kidney.	
C. It is an organic material that g	grows in the kidney and	intestines of adults.	
D. It is a natural stones-like structure from inorganic matter.	cture; found within the B	owman's capsule; fo	rmed
*SILO			
43 and are part of ex	othermic animals.		
A. Ectotherm, poikilotherm			
B. Enthotherm, exotherm			
C. Mexotherm, poikilotherm			
D. All animals			
44. The word "homeostasis" is a	word.		
A. German			
B. Japanese			
C. Greek			
D. Nigerian			

45. The pigment in the malphigi	an layer responsib	le for skin colourati	ion is known as
A. haemoglobin B. haemocyanin			
C. chlorocruorin			
D. melanin			
46. The top most layer of the sk	in that consists of	flat dead cells is kr	nown as
A. dermis			
B. cornified layer			
C. Malpighian layer			
D. epidermis			
47. Drinking excess alcohol can	cause		
A. drunkenness			
B. diarrhea			
C. diuresis			
D. appendicitis			
48. Detoxication in the liver invo	olves		
A. converting proteins to amino	acids		
B. emulsification of fats and oils	s of		
C. converting excess glucose in	nto glycogen		
D. breakdown of worn-out red I	blood cells		
49. Which of the following is an	organ?		
A. Guard cell			
B. Liver			

C. Xylem bundle	
D. Blood	
50. Maintaining a steady internal en	vironment of an organism is known as
A. haemoglobin	
B. homeostasis	
C. homeostasis	
D. hormones	
51. Which of the following group of c	organs are involved in homeostasis?
A. Kidney, liver, skin and lungs	
B. Mouth, tongue, liver and lungs	
C. Hair, liver, skin and tongue	
D. Sweat, hair, mouth and lungs	
52. The glomerular nephritis is a kidr	ney condition that occurs commonly in and
	ALOS LEGITOR AND ALOST AND
A. children and adolescents	
B. adults and the aged	
C. the aged and children	
D. all persons	
53. The following are diseases of the	e kidney except
A. nephritis	
B. kidney stone	
C. diuresis	
D. hepatitis	

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54. Which of the following is excreted	by the sweat glands?
I Sulphur	
II Water	
III Salts	
IV Nitrogenous substances	
A. I, II and III only	
B. I, II, III and IV	
C. II, III and IV only	
D. III and IV only	
55. What are the names of the differe	nt layers of the epidermis?
A. Cornified layer, grandular layer and	d nalpighian layer.
B. Conifer layer, granular lays and Ma	lpighian layer.
C. Cornified layer, granular layer and	Malpighian layer
D. Cornified layers, grand layer and m	nalphighian layer
56. The glomerular filtrate contains th	e following substances except
A. water	
B. urea	
C. blood corpuscles	
D. glucose	
57. The secrets a hormone that thyroxine.	induces the thyroid gland to produce more
A. islets of langerhans	
B. adrenal gland	
C. pituitary gland	
D. parathyroid gland	

58. The skin manufactu	res and stores vitamin
A. C	
B. A	
C. B	
D. D	
59. How many lobes do	es the liver have?
A. 3	
B. 4	
C. 5	
D. 2	
60. Regulation of blood	d sugar level takes place in the
A. pancreas	
B. ileum	
C. liver	
D. kidney	

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TOPIC: REPRODUCTIVE SYSTEM IN MAMMALS

DIRECTION: Choose the correct answer from the lettered options.

1. All of the following takes place after	er fertilization except	
A. increase in ovary size		
B. gradual colour changes		
C. development of the fruit wall into	pericarp	
D. disintegration of fruit wall		
2. In the human female, when two ova	a are released simultaneo	usly and fertilized;
A. identical twins are produced		
B. fraternal twins are produced		
C. siamese twins are produced		
D. the children produced are genetic	cally identical	
3. A farmer left his land uncultivated method is he using?	for five years before retur	rning to it. What farming
A. Modern agriculture		
B. Strip cropping		
C. Bush fallow system		
D. Crop rotation		
4. The transfer of pollen grains from	the anther to the stigma c	of flowers is known as
A. pollination		
B. fertilization		
C. cross pollination		
D. sexual reproduction		

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b. Which one of the following is	not a characteristi	c of wind pollinated	tiowers?
A. The flowers have no nectar.			
B. Pollen grains are usually tiny	y.		
C. Pollen grains are usually ver	ry rough.		
D. They are scentless.			
6. If an insect cell is left in distil	lled water for two h	ours, it is likely to $_$	
A. lose some of its water to the	surrounding water	500	
B. lose all of its water to the su	ırrounding water		
C. reproduce by binary fission			
D. become more turgid			
7. During seed development, that the	e following change	s take place in the	ovule except
A. nucleus of the endospem de	evelops		
B. guard cells degenerate			
C. micropyle expands			
D. integument becomes the te	sta		
8. Which of these statements is	s not true of insects	s?	
A. They are anthropods.			
B. Their body is divided into th	ree distinct regions	of head, thorax an	d abdomen.
C. Their thorax comprises thre	e segments, only tw	vo of which bear a p	pair of
appendages each.	×62,		
D. Respiration is by means of t			
9. Seeds fail to germinate wher	1 temperature beco	mes	
A. too high or too low			

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B. average or opti	mum			
C. optimum				
D. none of the abo	ove			
10. A drupe consis	sts of laye	rs.		
A. 2				
B. 4				
C. 5				
D. 3				
11. Which of the fol	llowing organisms	lacks a reproductiv	ve organ?	
A. Chlamydomona	as			
B. Toad				
C. Pride of Barbac	dos			
D. Cockroach				
12. Placentation of	: plants is best des	scribed as the	N. C. S. C.	
A. arrangement of	ovules in the ova	ry		
B. arrangement of	f fruits on the bran	iches		
C. development o	of ovules in the ova	ary		
D. formation of the	e pericarp from th	e ovary wall		
13. A structure tha	t developes from t	the ovary after ferti	lization is called	-071C
A. leaf				
B. stalk	×este			
C. stem				
D. fruit				

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14. Dry dehiscent fr	ruits are classified a	according to	type.	
A. fruit				
B. leaf				
C. pericarp				
D. flower				
15. Dispersal by exp	olosive mechanism	is common in fruit	s such as	
A. kolanut				
B. groundnut				
C. oil bean				
D. cassia				
16. Fruits that are d	dispersed include al	l except		
A. combretum				
B. bougainvillea				
C. tridax				
D. berries				
17. Which of the fol	llowing conditions a	ire necessary for s	seeds to germinat	te?
A. Uric acid, very c	old temperature, ni	trogen and fruits.		
B. Urine, hot tempe	erature, oxygen and	l viable seeds.		
C. Water, suitable	temperature, stone:	s and viable seeds	3.	
D. Water, suitable	temperature, oxyge	n and viable seed:	S.	
18. Which one is no	ot an example of a m	nultiple fruit?		
A. Fig				
B. Bread fruit				
C. Apple				

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D. Pineapple	
19. Which one of the following is	not a dicotyledonous seed?
A. Okra	
B. Pride of Barbados	
C. Balsam	
D. Flame of the forest	
20. Which of the following states	ments is true about fertilization?
A. One chromosome from the m	nale joins another from the female.
B. One gene from the male com	nbines with another from the female.
C. The male nucleus fuses with	the female nucleus.
D. One set of chromosomes cor	mbines with another set.
21. An example of a dry dehiscer	nt fruit is
A. cola	
B. palmnut	
C. coconut	
D. groundnut	
22. One main function of the am	niotic fluid in pregnant women is to
A. protect the foetus against sh	iock
B. remove waste products from	the foetus
C. supply food and water to foe	etus
D. carry oxygen to the foetus	
6	
23. In a drupe only the and _	are fleshy A. mesocarp and endocarp
B. epicarp and mesocarp	-Offe

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C. epicarp and endocarp				
D. none of the above				
24. Which one is not an exam	ple of a cypsela?			
A. Emilia				
B. Tridax				
C. Obeche				
D. Eupatorium				
25. The process of transfering stigma of the same flower is c		m the anthers of	one flower to	the
A. cross pollination				
B. self-fertilization				
C. self-pollination				
D. cross fertilization				
26. In grasshopper/cockroacl	h, digestion starts	in the		
A. oesophagus				
B. crop				
C. gizzard				
D. midgut				
27. The splitting of the perical	rp to liberate seed	ds is a characteri	stic of	
A. dry indehiscent fruits				
B. dry dehiscent fruits				
C. succulent fruits				
D. none of the above				

28. When is the best tir	ne to test for the pre	esence of starch in	ı a leaf?
A. Before sunrise			
B. At sunrise			
C. At midday			
D. immediately after su	ınset		
29. The develops	from the embryo and	d makes contact w	ith the uterine wall.
A. umbilical cord			
B. placenta			
C. allantois			
D. amnion			
30. What is the effect of	of suboptimal temper	rature on the rate	of germination?
A. Increase			
B. No effect			
C. Retardation			
D. None of the above	Siles		
31. Which of the followi	ng describes an exar	mple of fertilization	n in higher organisms?
A. Fusion of sperm and	d egg nuclei.		
B. Ejaculating of sperm	າ into a female body.		
C. Male gametes germ	inating in the pollen	tube.	
D. A pollen grain landir	ng on a stricky stigm	a.	
· -	2500		
32. Silk cotton tree is p	oollinated by		
A. wind	•		
B. water			
Chirds			

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D. bats		
33. All of the following are ag	gents of pollination except	
A. wind		
B. sunlight		
C. animals		
D. water		
34. The jointed structure in in smell and vibration is the	nsects that bears organs which are s 	ensitive to touch,
A. maxilla		
B. labium		
C. antenna		
D. abdomen		
. OSTO		
35. Coconut seeds and water	er lilies are examples of seeds dispers	sed by
A. wind	1691	*Silon
B. water		
C. man		
D. bird		
36. Which of the following is	not an adaptation of wind-dispersed	I fruits and seeds?
A. Small and light body	15.00°	
B. Spongy coats		
C. Turfs of hairs		
D. Wings on pericarp		

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37. In plants, is	a structure which deve	elops from the ovule a	fter fertilization.
A. embryo			
B. seed			
C. cotyledon			
D. plumule			
38. In mammalian ma	ales, the excretory and	reproductive systems	share the
A. ureter			
B. vas deferens			
C. urethra			
D. testes			
39. One of the disac	dvantages of cross polli	nation is that	
A. it leads to less pr	roduction of seeds		
B. it produces unhe	ealthy seeds and fruits		
C. pollen grains are	e likely to be wasted dur	ing the process	
D. the seeds produc	ced gradually develops	into weaker plants	
40. An example of c	aryopsis is		
A. guava			
B. maize grain			
C. coconut			
D. tomato			
41. A is a dry in pappus.	ndehiscent fruit containi	ing one seed and pos	sessing a hairy
A. nut			
B. drupe			

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C. cypsela				
D. follicle				
42. An achene wit	h pericarp fused wit	h the testa is call	ed	
A. nut				
B. cypsela				
C. samara				
D. caryopsis				
43. Self-pollinated	d flowers are	o o		
A. bisexual				
B. unisexual				
C. dioecious				
D. none of the ab	ove			
43. Fruits are clas	sified into			
A. simple, multiple	e and aggregate			
B. simple, multiply	y and aggregate			
C. multiply and ag	ggregate			
D. simplify and m	ultiply			
44. The is locand lying on top o	cated in the mamma of the stomach.	alian abdominal ca	vity just below	the diaphragm
A. bladder				
B. intestine				
C. liver	XO			
D. pancreas				

45. A flowering plant having both said to be	the male and female flowers on the same plant is
A. regular	
B. monoecious	
C. irregular	
D. dioecious	
46. Which of the following is not a	characteristic of wind dispersed fruits and seeds?
A. Light weight	
B. Wing	
C. Floss	
D. Sticky juice	
47. Which one of the following has	s epigeal germination?
A. Maize grain	
B. Cowpea seed	
C. African yam bean seed	
D. All of the above	
48. In plant breeding, artificial poll	ination can result in
A. production of healthy crops	
B. improvement of crop variety	
C. susceptibility of crops to disea	ises
D. delayed crop maturity	
49. The germination in which the comparison.	cotyledons are carried above the soil is known as
A. epigeal	

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B. hypogeal		
C. embryo		
D. none of the above		
50. The process by which the en into a seedling is known as		its testa and develops
A. fertilisation		
B. planting		
C. germination		
D. fusion		
51. The process by which insects appearance during developmen	_	ges in form and
A. ecdysis		
B. metamorphosis		
C. aestivation		
D. migration		

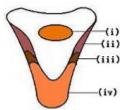
TOPIC: SENSE ORGANS

DIRECTION: Choose the correct answer from the lettered options.

1. The taste of delicious food	d is detected by the $_$	of the tongue.	
A. mechanoreceptors			
B. photoreceptors			
C. chemoreceptors			
D. thermoreceptors			
2. The eyeball is a fille	ed hollow structure.		
A. water			
B. fluid			
C. blood			
D. air			
3. If you press a ruler agains	t your skin, you feel pr	ressure and the sense	e of
A. pain			
B. touch			
C. heat			
D. stings			

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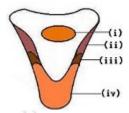
4. From the diagram, what taste does the part labelled (ii) perceive?



- A. Sweet
- B. Sour
- C. Bitter
- D. Salt
- 5. The outer ear consists of the _____, ___ and ____
- A. pinna, auditory meatus, tympanic membrane
- B. ear lobe, ear wax, ear liquid
- C. pinna, ear tube, wax
- D. organ of hearing, talking, thinking
- 6. The temperature receptors in the skin are of _____ types
- A. 2
- B. 4
- C. 3
- D. 5
- 7. The function of the ear as a sense organ is hearing and _____
- A. loudness
- B. listening
- C. balance
- D. feeling

8. Which one of the following is no	ot a part of the mammalian ear?	
A. External ear		
B. Labyrinth		
C. Meatus		
D. Tympanum		
9. The inability of some individuals example of	s to perceive the smell of some subs	stances is an
A. physiological adaptation		
B. physiological variation		
C. morphological variation		
D. morphological adaptation		
10. The eye defect caused by unevknown as	ven curvature of the cornea or lens	or both is
A. myopia		
B. presbyopia		
C. astigmatism		
D. hypermetropia		
11. Which one of the following does	s not cause deafness?	
A. Wax		
B. Syphilis		
C. Head injuries		
D. Vaccinations		

12. The diagram shown is that of the _____.



- A. teeth
- B. tongue
- C. ear
- D. nose
- 13. Which of the following best explains why it is difficult to see clearly in dim light?
- A. Initially the eye cannot operate when the light is dim.
- B. The choroid reflects all the light that enters the eye.
- C. Too little light reaches the retina and so the cones may not be stimulated enough.
- D. Dim light causes the pupil to close up so that not much light enters the eye.
- 14. The outward bending of parallel light rays from distant objects before falling on the eyeball is called _____.
- A. converging
- B. blurring
- C. diverging
- D. all of the above
- 15. Which one of the following is not a sense receptor?
- A. Touch receptor
- B. Pain receptor
- C. Heat receptor

D. Hugs receptor			
16. From the diagra	m, what taste does the part I	labelled (i) perceive?	
A. Sweet			
B. Sour			
C. Bitter			
D. Salt			
17. The nose senses	s smell by means of		
A. olfactory chemo	receptors		
B. nociceptors			
C. photoreceptors			
D. thermoreceptors	S		
18. Receptors that r	espond to pressure are loca	ated	
A. deep in the skin			
B. on the skin surfa	асе		
C. just immediately	after the top layer of the sk	in	
D. above the head			
19. The sensory ner	ve endings of the nasal char	mber join together to fo	rm olfactory
nerve that goes to	the olfactory lobe of the	co _{lc.}	
A. brain			
B. nose			
C. eye	*62,		
D. ear			
20 separat	tes the middle ear from the d	outer ear.	

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A. Fenestra ovalis		
B. Eustachian		
C. Eardrum		
D. Stapes		
21. Hypermetropia is an eye	e defect also known as	
A. short-sightedness		
B. long-sightedness		
C. myopia		
D. presbyopia		
22. Inside the membranous	labyrinth is a fluid called	·
A. endolyte		
B. endolymph		
C. perilymph		
D. perilyte		
23. Which one of the follow	ing is not a sense organ?	
A. Skin		
B. Nose		
C. Brain		
D. Tongue		
24. If you prick your skin wit	th a needle, what sensation will y	ou feel?
A. Pressure sensation		
B. Touch sensation		
C. Pain sensation		

D. Heat sensation

25. One function of the iris of the n	nammalian eye is
A. closing and opening of the eyes	s cester
B. absorbing dangerous rays from	sunlight
C. regulating the amount of light e	ntering the eye
D. bringing light rays to focus on the	ne retina
26. The sclera or sclerotic layer is a	also called the of the eyes.
A. white	
B. grey	
C. brown	
D. blue	
27. The retina of the eye is a	_ that receives electromagnetic stimuli.
A. thermoreceptors	
B. mechanoreceptor	
C. chemoreceptor	
D. photoreceptor	
28. Long-sightedness can be corre	ected by using a lens.
A. convex	
B. concave	
C. glasses with uneven curvature	
D. any of the above	
29. The part of the ear known as ty	mpanum is also called the ear.
A. middle	2
B. outer	

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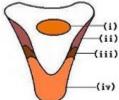
- C. inner
- D. none of the above
- 30. _____ stimulates nerve endings in the tongue.
- A. Food substances
- B. Water
- C. Chemical substances
- D. Juicy substances
- 31. The outer ear is made up of the pinna and the ______
- A. auditory nerve
- B. auditory canal
- C. muscles
 - D. malleus

Look at the diagram carefully and answer the question.

32. What part of the body is this?

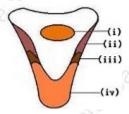


- A. The eye
- B. The nose
- C. The ear
- D. The fingers
- 33. From the diagram, what taste does the part labelled (iv) perceive?



(I)	0.				
A. Sweet					
B. Sour					
C. Bitter					
D. Salt					
34. Which one of the	following receptor	rs do we have in th	e skin?		
I Heat receptor					
II Cold receptor					
III Warm receptors as	temperature rece	ptors			
A. I and III only					
B. II and III only					
C. I, II and III					
D. I and II only					
35. Chemicals are stir	muli of the nose ar	nd the			
A. ear					
B. tongue					
C. eye					
D. skin					
36. Man has both day the eye.	and night visions	because they hav	e both rods a	ind in	
A. optic nerves					
B. blind spot					

- C. lens
- D. cones
- 37. The main sensory receptors of the body include ____, ___, ___ and ____
- A. tasting receptors, sighting receptors, touching receptors, hearing receptors,
- B. mechanoreceptors, chemoreceptors, photoreceptors, thermoreceptors
- C. eye, nose, skin, ear
- D. None of the above
- 38. From the diagram, what taste does the part labelled (iii) perceive?



- A. Sweet
- B. Sour
- C. Bitter
- D. Salt
- 39. Thermoreceptors are found in the _____.
- A. tongue
- B. ear
- C. skin
- D. nose
- 40. In the skin, there are ____ sense receptors.
- A. 3
- B. 4

C. 6				
D. 5				
41. Pepper irritates contains	the whole tongue	and causes a bu	urning sensatio	n because it
A. taste				
B. flavour				
C. chemicals				
D. none of the abo	ve			
42. The mammalian	ear consists of	parts.		
A. 2				
В. 3				
C. 4				
D. 6				
43. The stimulus of	the sense organ "	eye" is		
A. shadow	S			
B. darkness				
C. light				
D. brightness				
X CONTRACTOR OF THE PARTY OF TH				
44. The layer of ligh	nt-sensitive cells ir	n the human eye	is called the	
A. cornea		x(e)		
B. sclerotic layer				
C. retina	×O-			
D. conjunctiva				

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45. Ear stones are know	vn as
A. otoliths	
B. corti	
C. sacculus	
D. coiled cochlea	
46. For clear vision, the	vitamins that could be taken is
A. vitamin C	
B. vitamin D	
C. vitamin E	
D. vitamin A	
47. Taste bud opens to	the surface of the tongue by
A. air	
B. saliva	
C. pores	
D. inlets	
48. A taste bud has a _	shape.
A. curve	
B. round	
C. oval	
D. flask	

49. Rods are sensitive to dim	light and	
A. bright coloured vision		
B. dark coloured vision		
C. colourless vision		
D. colourful vision		
50. Which of the following tas perceives?	ste receptors is not correctly	y matched with the taste it
A. Tip-sweet		
B. Back-bitter		
C. Back-sour		
D. Side-sour		
51. The three bones of the mid	ddle ear are called ear	-62
A. bones		
B. windows		
C. skeleton		
D. ossicles		
52. Within the cavity of the mi	iddle ear is a chain of three	tiny bones called,
A. malleus, incus, stapes		
B. pharynx, hammer, anvilis		
C. incus, stirrups, hammering		
D. stapes, stirring, anvil		

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53. In the eye, the cornea	is a continuation of the	
A. blind spot		
B. conjunctiva		
C. sclera		
D. retina		
54. The amount of light ra	ys entering the eye is regulated by the	
A. lens		
B. retina		
C. pupil		
D. iris		
55. Human beings have _	major sense organs.	
A. 4		
B. 6		
C. 5		
D 3		

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TOPIC: VARIATION IN POPULATION

DIRECTION: Choose the correct answer from the lettered options.

1. Termites are called social insects because	
A. the nests are built by the nasute soldiers	
B. they live together in communities	
C. the queen allocates duties to the workers	
D. the king and queen mate	
2. Blood groups and tongue rolling are examples of	
A. continuous variation	
B. discontinuous variation	
C. variation due to environment	
D. adaptive variation	
3. Which of the following is an example of continuous vari	ation?
A. Human blood groups	
B. Sex differences in humans	
C. Haemoglobin types	
D. Height in humans	
4. The major types of man's fingerprints do not include	- 12 C
A. arch	
B. whorl	
C. simple	
D. loop	
5. An example of morphological variation is	

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A. blood group		
B. height		
C. ability to roll the tongue		
D. behavioural pattern		
6. Which of the following human chara	cteristics are disconti	nuous variations?
I. Complexion		
II. Height		
III. Blood Rhesus factor		
IV. Ability to roll the tongue		
A. I & III		
B. II & III		
C. II & IV		
D. III & IV		
7. One application of variation is in	-310°	
A. determining the size and weight of	individuals	
B. determining paternity		
C. conservation of wildlife		
D. controlling of disease vectors		
8. Which of the following scientists dis	covered the Rhesus fa	actor in human blood?
A. Hooke and Lavine		
B. Darwin and Landsteiner		
C. Landsteiner and Wiener		
D. Hooke and Darwin		
9. People without antigens on their red	d blood cells belong to	o blood group

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A. A		
B. AS		
C. BB		
D. O		
10. Which set of characters car	n be expressed phenotypically?	
I. Complexion		
II. Height		
III. Blood Rhesus factor		
IV. Colour blindness		
A. I & II		
B. I, II & IV		
C. I, III & IV		
D. I, II & III		
11 is an application of p	ohysiological variation.	
A. Finger print pattern		
B. Hair colour		
C. Height measurement		
D. Detection of paternity		
12. Which of the following varia	ations is applicable to a weight li	fter?
A. Absolute variation		
B. Discontinuous variation		
C. Hereditary variation		
D. Acquired variation		

13. Which of the following is r	not a finger print classification?
A. Arch	
B. Loop	
C. Whorl	
D. Tented arc	
14. In sex determination, the 2	XY chromosome comes from the
A. female	
B. male	
C. both parents	
D. male child	
15. Morphological variation c	an clearly be seen in
A. weight	
B. skin colour in man	
C. height	
D. all of the above	
16. Which of these structural	features is adapted for only water conservation?
A. Succulent stems	
B. Scales in animals	
C. Spines in plants	
D. Feathers in birds	
17. What are the applications	of variations?
A. Blood transfusion	
B. Crime detection	
C. Determination of paternity	

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D. All of the above	
18. When oil is poured into the breeding	ng site of mosquitoes, it
A. deprives the larvae of water	
B. kills the adults	
C. suffocates the pupae	
D. slows down egg development	
19. Variation may be grouped into	_ types.
A. 2	
B. 4	
C. 5	
D. 11	
al Silver	
20. Which of the following is not a cor	ntinuous variation?
A. Heights of plants	
B. Weight	
C. Ability to roll tongue	
D. Foot length	
21. Which of the following is not a con-	tinuous variation?
A. Colour of skin	
B. Size of the individual	
C. Ability to roll the tongue	
D. Height of the person	
22. The two types of variations are	_ and variation.
A. chemical, physiological	

B. morphological,	physiological			
C. morphological,	, physical			
D. anatomical, bio	ological			
23. Group instinct	or social behaviou	r is not displayed in .		
A. soldier ants				
B. bees				
C. chickens				
D. weaver birds				
24. A food chain a	always begins with a	ı		
A. decomposer	COL			
B. saprophyte				
C. carnivores				
D. producer				
25. A feature of th	e caste system of k	pees and termites is	that	
A. the workers als	so perform reproduc	ctive functions		
B. the drones are	always bigger than	the queen		
C. the workers pe	erform housekeepin	g duties		
D. the queen dies	immediately after t	the first sting		
26. A permanent of	change in gene is ca	alled		
A. mutation				
B. gene drift	xester			
C. X-factor				
D. mutant X				

27. Two factors that c	an cause variatio	on are		
A. heredity factors ar	nd anti-heredity f	actors		
B. genetic difference	s and influence f	rom the environn	nent	
C. blood group differ	rences and polym	norphic changes		
D. inter-ethnic differen	ences and variou	s individual expe	riences	
28. An Amoeba and a	ın unlaid chicken	egg are		
A. animal tissues				
B. organelles				
C. single cells				
D. organisms				
29. The division of lab	oour in social inse	ects is an exampl	e of	
A. structural adaptati	ion			
B. physiological adap	otation			
C. commensalism				
D. behavioural adapt	ation			
30. Variation betweer	າ individuals are ເ	of kinds.		
A. 3				
B. 2				
C. 4				
D. 5				
31. Two pairs of genes		lack race and ab	ab for the wh	ite race when
A. ABab				
B. AaBb				

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C. BbAa		
D. AbaB		
32. What is the significance of t	the bee dance to other bees?	
A. Warning signal		
B. Presence of food		
C. Mating signal by the male		
D. Scaring the enemies away		
33. The boomerang shaped bea	aks of flamingoes have slits adapted for	<u></u> .
A. scooping mud and sieving it	i digital	
B. picking seeds and worms		
C. grasping slippery water anim	nals	
D. sucking nectar from flowers		
34. A person's finger print when	n taken by the police is stored in a	
A. finger bank		
B. storage bank		
C. prints bank		
D. memory bank		
35. Which one of the following t	features is used in crime detection?	
A. Blood group		
B. Skin colour		
C. Finger print		
D. Genotype		

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36. Which one of the following is	not a type of blood	group?	
A. A			
B. B			
C. C			
D. O			
37. If a cross is made between a preeding white flowered plant who for white, the most likely result of	ere R is dominant fo	r red flower and r	-
A. 75% red flowers and 25% white	te flowers		
B. All red flowers			
C. 75% white flowers and 25% re	ed flowers		
D. 50% red flowers and 50% wh	ite flowers		
38. A person's ability to taste phe example of variation.	enylthiocarbamide as	bitter or tasteles	s is an
A. continuous			
B. morphological			
C. irregular			
D. discontinuous			
39. Human finger print is a t	rait.		
A. phenotypic			
B. genotypic			
C. cyclopitic			
D. none of the above			
40. Which of these is not a herec	litary variation?		
A. Infant paralysis			

B. Blood group		
C. Sickle cell		
D. Shape of face and nose		
41. Features that show variation characteristics.	ns are often a blend of inherit	ed and acquired
A. True		
B. False		
42. Variations cannot be applie	ed to	
A. crime detection		
B. blood group		
C. identity marks between org	anisms	
D. diseases of organisms		
43. Which of the following opti	ons make up the bee caste?	
A. Soldiers and queen		
B. Drones, soldiers and worker	rs	
C. Queen, soldiers and worker	rs	
D. Drones, queen and workers	;	
44. A variation where there are given feature is called	sharp differences between the	ne various forms of a
A. continuous variation		
B. discontinuous variation		
C. stable variation		
D unstable variation		

45. During blood transfusion blood group O is given blood		prevented if a patient having
A. AB	al Silver	
B. A		
C. O		
D. B		
D. B.		
46. Variations that determi	ines the physical appearan	ce of a person is known as
A. physiological		
B. discontinuous		
C. morphological		
D. none of the above		
47. Which one of the follow	wing blood groups is a gene	eral donor?
A. B		
B. O		
C. AB		
D. B+		
48. Which of the following	is an example of discontinu	uous variation?
A. The height of a pear pla	ant	
B. Sex of an offspring		
C. The colour of a pear pl	ant	
D. The adult body weight		
, ,		
49. Antigen A in the red bl	lood cell has antib	oody in plasma.
A. B		

B. A		
C. A + B		
D. O		
50. The type of variation in value two extreme forms is called .	which a given feature shows gr variation.	radual transition between
A. discontinuous		
B. formal		
C. continuous		
D. different		
51. An individual with blood g	group AB can receive blood fro	om those in blood group(s)
75. V.		
A. AB only		
B. A and B only		
C. B only		
D. A, B, AB and O		
52. Agglutination occurs in b	plood transfusion when the	
A. antigen and antibody from	m the donor and recipient read	cts
B. same antibodies from do	nor and recipient fuse togethe	er to form a lump
C. donor and recipient belo	ng to different races	
D. recipient is not a universa	al recipient but a universal dor	nor
·	alle Care	
53. What is variation in popu	lation?	
A. Individual differences with	hin a species.	
B. Heridity within a lineage.		
C. Various growth levels.		

D. Inheritance of special	characteristics.	
54. Even though some flocolours, they still contain	wering plants contain accessory pig the pigment	gments, which give them
A. melanin		
B. chlorophyll		
C. xanthophyll		
D. carotene		

ANSWERS

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TOPIC: BIOLOGY OF HEREDITY (GENETICS)

DIRECTION: Choose the correct answer from the lettered options.

1. Albinism is as a result of the absence of pigment in the malpigh skin.	nian layer of the
A. keratin	
B. melanin	
C. tyrosine	
D. nicotine	
The correct answer is option [B].	
2. Human height is an example of a feature which depends on both	and
A. genotype	
B. genetic and environmental factors	
C. mother's genotype and environmental factors	
D. phenotype and environmental factors	
The correct answer is option [B]	
3. The sugar in RNA contains	
A. acids	
B. hydrogen	
C. oxygen	
D. all of the above	
The correct answer is option [C].	
4 is a biological factor unique to each individual.	
A. DNA	
B. The eye colour	

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C. The blood group		
D. Genetics		
The correct answer is option [A]		
5. Which of the following traits may	not be important in marriage co	ounselling?
A. Sex-determination		
B. Sickle-cell anemia		
C. Rhesus factor		
D. Colour of skin		
The correct answer is option [D] 6. If a baby is a female, her mother's	s ovum must have been fertilize	ed by a sperm
carrying the chromosome.	y avain maat nava baan tartiii2a	a by a openii
A. X		
B. XY		
C. XX		
D. Y		
The correct answer is option [A]		
Generally, in males, sex chromosom females, they consist of two X chror chromosome from each parent.		

7. Which of these statements is true about the human ABO blood grouping system?
A. Blood type B is recessive.
B. Blood type O is dominant over type B
C. Blood type O is co-dominant with type A
D. Blood type O has antibodies A and B.
The correct answer is option [D]
8. Heredity can be defined as
A. the non-resemblance of closely related organisms
B. the total absence of parental traits in offspring
C. the absence of variation in organisms
D. the transfer of characteristics from parents to offspring
The correct answer is option [D]
Soft, Collins
9. Which of the following is a sex-linked character?
A. Sickle-cell anemia
B. Tongue rolling
C. Skin colour
D. Colour blindness
The correct answer is option [D]
10. Which of the following is the precise location of gene?
A. Chromosome
B. Nucleus
C. Centriole
D. Ribosome
The correct answer is option [A]

11. All hereditary characters in a cell a through the process of	ire passed on from parent ce	ell to daughter cell
A. mitosis		
B. meiosis		
C. fertilization		
D. implantation		
The correct answer is option [A]		
ي .		
12 refers to a pair of contrast a pair of contrasting characters.	sting genes on the chromoso	omes for expressing
A. Hybrids		
B. Alleles		
C. Genotype		
D. Phenotype		
The correct answer is option [B].		
C.		
13. Which of the following statements	is not true about chromoso	mes?
A. Each chromosome is made up of to	wo chromatids.	
B. Body cells have diploid numbers of	of chromosomes.	
C. Homologous chromosomes do no	ot occur in pairs naturally.	
D. Homologous chromosomes occur	in pairs naturally.	
The correct answer is option [C]		
14. The following are genetic disorder	's except	
A. sickle cell anemia		
B. filariasis		
C. phenylketonuria		
D. hemophilia		

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The correct answer is option [B]	1	
15. A unit of heredity is called	<u> </u>	
A. character		
B. protein		
C. RNA		
D. gene		
The correct answer is option [D]	1. 31000	
16. Which one of the following is	s not a type of RNA?	
A. rRNA		
B. mRNA		
C. tRNA		
D. nRNA		
The correct answer is option [A]	J. 60 ¹¹	
17. The somatic cells of man cor	ntains number of chromosomes.	
A. 45		
B. 43		
C. 46		
D. 40		
The correct answer is option [C]. o ⁽¹⁾	

18 is found in the nucleu	us of a living cell, carrying ger	netic information?
A. Blood		
B. Sperm		
C. Ovary		
D. Chromosome		
The correct answer is option [D].		
19. When true breeding Tall [T] pla plants the F1 generation was all ta members of F1 generation are allo	all. What is the genetic ratio c	V
A. 1 tall: 3 short		
B. 3 tall: 1 short		
C. 1 tall: 1 short		
D. O tall: 4 short		
The correct answer is option [B]		
20. Sickle-cell anemia has persist	ed in the human race due to	Silver Silver
A. lack of proper medical care for	r sickle cell patients	
B. carriers being more resistant to	o malaria	
C. carriers still intermarrying		
D. all of the above		
The correct answer is option [C]		
If a couple with the sickle-cell train child will have sickle cell anaemia.		n four chance that the
X C S C S C S C S C S C S C S C S C S C		
21. A zygote with one X-chromoso	ome will give rise to	
A. a female with immature sex org	jan	
B. a female with very mature sex of	organ	

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C. a remaie who is sterile but have	ve normai sex organ	
D. a male who is sterile but have	female body characteristics	
The correct answer is option [A]		
		alana af the mad
22 is a heritable diseas blood cells.	e characterized by an abnormal	snape of the red
A. Anaerobiosis		
B. Haemophilia		
C. Sickle cell		
D. Rheumatism		
The correct answer is option [C].	- 31/0°	
23. Sex cells are also called	cells	
A. somatic		
B. reproductive		
C. body		
D. none of the above		
The correct answer is option [B].		
24. When gametes from pure bre tallness and shortness are involve generation are usually		
A. purebreed		
B. heterozygous dominant		
C. homozygous recessive		
D. mutant		
The correct answer is option [B]		

generation.				
26 characte	er expresses its	elf in the prese	ence of a contrast	ting character.
A. A hybrid				
B. An allele				
C. A recessive				
D. A dominant				
The correct answer is	option [D]			
27. A character which the second is	fails to express s	itself in the fire	st filial generation	n but emerges in
A. heterozygote				
B. homozygote				
C. dominant in the first	st generation			
D. recessive in the first	st generation			
The correct answer is	option [D]			
28. The study of hered	dity is centred o	on the of a	living cell.	
A. cell wall				
B. nucleus				
C. cytoplasm				
D. vacuole				
The correct answer is	option [B].			
×				
29. In heredity, c	ontrols growth	and developme	ent in every living	thing.
A. RNA				
B. genes				

In a monohybrid cross, only the alleles of one specific character are involved; thus,

the dominant form of the character masks the recessive form of the first filial

C. DNA		
D. cytoplasm		
The correct answer is option [C].		
30. The four bases of the DNA cha	ain are held together by bonds.	
A. hydrogen		
B. oxygen		
C. chlorine		
D. helium		
The correct answer is option [A].		
31. If a child can receive blood fro	om all donors, he belongs to blood grou	p
A. O		
B. A		
C. B		
D. AB		
The correct answer is option [D] T	Γhe child has both antigen A and antige	n B.
32. A gene which expresses itself	only in the homozygous condition is	·
A. a mutant		
B. a dominant		
C. recessive		
D. lethal		
The correct answer is option [C]		
XC57		
33 carry genetic information	n.	
A. Chromosomes		
B. Chromatids		

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C. DNA		
D. Blood		
The correct answer is option [C].		
34. Sex-linked characters are determined therefore a sex-linked character cannot be		mes
A. father to son		
B. mother to daughter		
C. mother to son		
D. father to daughter		
The correct answer is option [A]		
Females have two copies of X-chromoso and one Y-chromosome; thus a son always		me
35. Which one of the following is not a pu	urine?	
A. Adenine		
B. Guanine		
C. Cytosine		
D. None of the above		
The correct answer is option [C].		
Cytosine is a pyrimidine.		
36. DNA is made up of two chains of sma	II chemical units called	
A. nucleus		
B. RNA		
C. nucleotides		
D. none of the above		
The correct answer is option [C].		

37. Haemophili	a results from the m	utation of the genes r	esponsible for
A. sex			
B. skin colour			
C. blood clotti	ing		
D. the formation	on of haemoglobin		
The correct an	swer is option [C]		
·		r in which the afflicted bleeding even from sn	d person is unable to clot nall cuts.
	permanent change ir ive rise to a new cha		nay alter or destroy a given
A. Genetic var	iation		
B. Genetic en	gineering		
C. Genetic mu	tation		
D. Genotype			
The correct an	swer is option [C].		
	SS), which of the foll		nan who has sickle-cell Id be associated with the
A. AA			
B. SS			
C. AO			
D. AS			
The correct an	swer is option [D]		
40. A sudden l	ass of black piamen	t from the skin of an A	frican can be attributed to
	USS OF DIACK PIGHTER	t nom the skill of all P	frican can be attributed to

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A. a blending of black and white	e genes	
B. a recombination of genes		
C. loss of the epidermis		
D. mutation in the skin cells		
The correct answer is option [D]		
41. The red blood cell is in s	shape.	
A. star and biconcave		
B. spiral and convex		
C. round and biconcave		
D. oval and biconcave		
The correct answer is option [C].	*®	
42. If a dark skinned woman (Bb) children, how many of the children		I they have four
A. 3		
B. 2		
C. 1		
D. 0		
The correct answer is option [B]		
42 Which of the following is an a	avample of a manabubrid inharit	anaa in man?
43. Which of the following is an e		ance in man?
A. Astigmatism		
B. Cretinism		
C. Hyperthyroidism		
D. Albinism		
The correct answer is option [D]		

Monohybrid inheritance involves only the alleles of one specific character. In Human beings, albinism is managed with a single recessive gene, c, as well as normal skin tones through the dominant allele C; thus cc = albino and CC or Cc = normal.

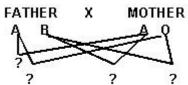
44. The crossing of completely unrelated strains in animals is called	
A. outbreeding	
B. inbreeding	
C. cross-linking	
D. none of the above	
The correct answer is option [A].	
45. During blood transfusion, agglutination may occur when	
A. antibodies react with contrasting antibodies	
B. antibodies react with similar antigens	
C. white blood cells from two individuals meet	
D. Two different antibodies react with each other	
The correct answer is option [B]	
46. Which of the following statements is not correct about sex-determination?	
A. Females alone determine the sex of a child.	
B. Males contribute an X or Y chromosome.	
C. Females contribute only the X chromosome.	
D. The sex of an individual is determined by males.	
The correct answer is option [A]	
47. In which of the following is the knowledge of genetics not applicable?	
A. Development of high-yielding varieties of seeds.	

B. Preservation of seeds.	
C. Development of early maturing seed	s.
D. Development of more healthy varieti	es of seeds.
The correct answer is option [B]	
48. Which of the following is a disease of shaped red blood cells?	aused by the destruction of abnormal
A. Rheumatism	
B. Malaria	
C. Anemia	
D. Haemophilia	
The correct answer is option [C].	
49. The set of rules by which DNA and F living cells is known as	RNA molecules carry genetic information in
A. chromosome	
B. heredity	
C. genetic code	
D. replication	
The correct answer is option [C].	
50. Which one of these is not a form of	energy?
A. Solar energy	
B. Sound energy	
C. Mechanical energy	
D. Conversion energy	
The correct answer is option [D]	

51. The	_ offspring combines	the best qualities of bo	th parents.
A. crossbred			
B. inbred			
C. selective bree	d		
D. pure bred			
The correct answ	wer is option [A]		
_ :	oroduces improveme mbinations coming ir	nts in the offspring due nto existence.	to a large number of
52. Males have _	chromosomes	while females have	chromosomes.
A. XY, XX			
B. XX, XY			
C. XX, XX			
D. YY, XX			
The correct answ	ver is option [A].		
	ual who is heterozygo ays expressed is des	ous for a particular chara cribed as	acter, the hereditary
A. allele			
B. sickle-cell ge	ne		
C. dominant ger	ne		
D. chromosome			
The correct answ	wer is option [C]		
	ual who is heterozygo ays expressed is des	ous for a particular chara cribed as	acter, the hereditary
A. allele			
B. sickle-cell ge	ne		
C. dominant ger	ne 🔑		

D. chromosome	
The correct answer is option	[C]
55. When the cell is about to	divide, the chromatids becomes as strands.
A. more visible	
B. more colourful	
C. thinner	
D. absent	
The correct answer is option	[A].
56. Albinos lack the enzyme of production of melanin.	called and so cannot secrete tyrosine for the
A. cellulase	
B. tyrosinase	
C. trypase	
D. lactase	
The correct answer is option	[B].
57. Which of the following stachromosomes?	tements best explains the meaning of homologous
A. Product of division of chro	omosomes
B. Two identical chromosom	es each derived from one parent
C. Chromosomes arranged of	on spindle fibre during cell division
D. All the chromosomes in a	hybrid
The correct answer is option	[B]
ש	
58. From the cross showing to offspring does not belong to	he inheritance of blood groups, which of the following the father?

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A. AA		
B. AO		
C. OB		
D. 00		
The correct answer is option [D]		
59. When two heterozygotes mate, th	ne dominant trait will appear in _	X
A. the F1 generation only		
B. the F2 generation only		
C. both the F1 and F2 generations		
D. neither F1 nor F2 generation		
The correct answer is option [C]		
60. If R and r donate the genes for a RR and Rr are	character, the offspring of the cr	oss between
A. RR, 2Rr, rr		
B. 2RR, 2rr		
C. 2RR, 2Rr		
D. 4Rr		
The correct answer is option [C]		
61. The structure of the DNA is ir	n shape.	
A circle		

B. triangle

C. square

D. helical	
The correct answer is option [D].	
62. Which of the following characters is n	ot sex-linked?
A. Albinism	
B. Skin Colour	
C. Haemophilia	
D. Colour blindness	
The correct answer is option [B]	
63. Genetic counselling is important when	n a marriage is planned between a
A. Rh woman and Rh+ man	
B. Rh woman and Rh man	
C. Rh⁺ woman and Rh⁺ man	
D. Rh⁺ woman and Rh man	
The correct answer is option [A]	
In this case, the woman has a high probabilities the risk of agglutination.	oility of having a Rh+ positive child; which
64. In Mendel's experiments, it was discovered monohybrid cross between a brown cocket the gene for the	_
A. brown colour was recessive	
B. white colour was dominant	
C. brown colour was dominant	
D. white colour did not combine	
The correct answer is option [C]	
In a monohybrid cross, the dominant form in the F1 generation.	n of the character masks the recessive form

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65. In man, the abi	ility to roll the tongue	is a variation.	
A. anatomical			
B. physiological			
C. structural			
D. morphological			
The correct answe	er is option [B]		
66. Guanine alway	s joins base.		
A. thymine			
B. cytosine			
C. adenine			
D. thiamine			
The correct answer	er is option [B].		
67. A pair of genes	s which control a trait	is described as	-300
A. dominant			
B. recessive			
C. allele			
D. variant			
The correct answer	er is option [C]		
68. The haploid nu	umber of chromosome	es in man is	
A. 23			
B. 46	X8512		
C. 42			
D. 24			

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The correct answer is option [A]

69. The most common means of transmitting the Syndrome (AIDS) is	Acquired Immune Deficiency
A. through cuddling a naked baby	
B. through blood transfusion	
C. through sexual intercourse	
D. through the sharing of needles	
The correct answer is option [C]	
70. In the structure of RNA, uracil pairs with	
A. cytosine	
B. thymine	
C. guanine	
D. adenine	
The correct answer is option [D].	
71. Genes are made up of a long chain of	
A. RNA	
B. tRNA	
C. DNA	
D. all of the above	
The correct answer is option [C].	
72. If a man of blood group AB marries a woman following will be in the first filial generation?	of blood group O, which one of the
A. AB	
B. OO	
C. AA	

D. AO			
The correct answer is o	ption [D].		
73. The F ₁ of a monohyb			s tall. In the F_2
A. 30			
B. 60			
C. 90			
D. 120			
The correct answer is o	ption [A]		
The offspring of the sec with roughly three-quar 74. The carrier of the he	ters dominant and on	e-quarter recessive.	
A. gene	reditary characters in	i piants and in animais	15 tile
B. nucleus			
C. chromosome			
D. chloroplast			
The correct answer is o	ption [A]		
75. Heredity is the trans	mission of inherited c	haracters from parent	to offspring via
A. gene			
B. hybrid			
C. vigour			
D. gamete			
The correct answer is o	ntion [A]		

TOPIC: EVOLUTION

DIRECTION: Choose the correct answer from the lettered options.

1. Long neck in giraffe is used to illustrate the theory of ____.

A. use and disuse				
B. origin of species	3			
C. origin of life				
D. natural selection	1 550			
The correct answer	is option [A]			
According to Lamai body parts.	rck, an organism coulc	I acquire traits th	nrough use or dis	use of
2. Which of the follo	owing fields of study c	annot yield stron	g evidence of ev	olution?
A. Fossil				
B. Histology				
C. Ecology				
D. Genetics				
The correct answer	is option [C]			
Ecology is the study environment.	y about the relationsh	ips among living	things and their	ohysical
3. Which one of the	e following is not a cas	tes of the honey	bee?	
A. Queen				
B. King				
C. Drone				
D. Workers	XO.			
The correct answer	is option [B].			
4. The drones in the	e colony of the honey	bees are		

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A. sterile females	
B. reproductive female	
C. males	
D. completely sterile male	
The correct answer is option [C].	
5. The following are structural adaptation	ns of a bony fish to life in water except
A. a streamlined body shape	
B. overlapping scales	
C. gills	
D. a tail and tail fins	
The correct answer is option [B]	
6. Which of the following has the most p	rimitive respiratory system?
A. Rat	
B. Fish	
C. Toad	
D. Grasshopper	
The correct answer is option [B]	
7. When the original king and queen of to	ermites die, they are replaced by
A. the king and queen of another colony	y
B. One or more secondary reproductive	from the same colony
C. some adult workers, which are specia	ally fed to breed
D. some mature soldiers nurtured as see	condary reproductive
The correct answer is option [B]	
8 Which one of the following is not a co	elenterate?

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A. Hydra		
B. Tarantula		
C. Jelly fish		
D. Physalia		
The correct answer is option [B].		
9. The following are adaptive propert drought except	ties of plants for the conservati	ion of water during
A. spines		
B. bright coloured flowers		
C. succulent stems		
D. deep roots		
The correct answer is option [B].		
10. The pedipalp in spiders is used for	or	
A. breathing		
B. growing		
C. feeling		
D. web spinning		
The correct answer is option [C]		
11. Plants growing in arid land are cal	led	
A. xerophytes		
B. hydrophytes		
C. hygrophytes		
D. none of the above		
The correct answer is option [A].		

12 laid down the basis f	or genetic studies.		
A. Thomas Morgan			
B. Gregor Mendel			
C. Charles Darwin			
D. Robert Hooke			
The correct answer is option [B]			
13. Which one of the following is photosynthesis?	not associated wit	h the chemistry o	of
A. 4H2O -> 4H + 4OH			
B. C6H12O6 -> 2C2H2OH + 2C0	02		
C. CO2 + 4H -> CH2O + H2O			
D. 4OH -> 2H2O + O2			
The correct answer is option [B]			
14. Examples of competitors in a	nimals are	_ and	
A. lizard, mouse			
B. snake, bird			
C. grasshopper, mouse			
D. cheetahs, lions			
The correct answer is option [D]			
15. Which of the following corres which organism survives and rep		a that the enviro	nment determines
A. The theory of acquired chara	ıcters		
B. Jean Lamarck's theory of use	and disuse		
C. Survival of the fittest			
D. Fossil records			

The correct answer is option [C]

- 16. Carnassial teeth are characteristic of ____ mammals.
- A. omnivorous
- B. herbivorous
- C. carnivorous
- D. none of the above

The correct answer is option [C].

- 17. Birds have feathers on their body that is used for _____
- A. flight
- B. beautification of the bird
- C. regulation of body temperature
 - D. reproduction and hatching of egg

The correct answer is option [C].

- 18. Which of the following sets of organisms represents the correct trend from simple to complex structural organization?
- 1. Mollusca; 2. Platyhelminthes; 3. Nematode; 4. Protozoa.
- A. 4 ->1 ->2 ->3
- B. 4 ->3 ->2 ->1
- $C. 4 \rightarrow 2 \rightarrow 1 \rightarrow 3$
- D. 4 ->2 ->3 ->1

The correct answer is option [D]

- 19. The possession of bright colours by an insect functions as _____.
- A. a means to secure the opposite sex
- B. decoration

- C. pollinating agent
- D. a means to distract predators

The correct answer is option [D].

20. In the illustration below, the hawk is _____.



- A. a scavenger
- B. a primary consumer
- C. a tertiary consumer
- D. an omnivore

The correct answer is option [C]

- 21. Which of the following habitats cannot be used for the study of succession?
- A. A savanna grassland
- B. An abandoned farmland
- C. A pond
- D. A well cultivated land

The correct answer is option [D]

- 22. Which one of the following plants store water in their stems?
- A. Cactus
- B. Bryophyllum
- C. Portulaca
- D. Casuarina

The correct answer is option [A].

23. Insects show considerable po	ower of water conservation due to the fact that
A. the chitinous cuticle is impreg	gnated with tanned proteins
B. nitrogenous waste is eliminate	ed as urea
C. chitin is impermeable to wate	r e
D. the malpighian tubules are im	permeable to water
The correct answer is option [C]	
24. Which of the following helps	birds maintain their body temperature?
A. Blood, which maintains consta	ant temperature.
B. Feathers, which cover the boo	dy.
C. Skin, which conserves moistu	re.
D. Veins, which transport fluid of	constant temperature to all body tissues.
The correct answer is option [B]	
A SHO	
25. Which one of the following in	sects is not a social animal?
A. Fly	
B. Termite	
C. Bee	
D. Ant	
The correct answer is option [A].	
26. What ecological condition far	vours the breeding of black flies?
A. Fresh water habitat	
B. Water in ponds and swamps	
C. Water in small containers	
D. Fast flowing streams	
The correct answer is option [B]	

27. Which of the following fruits	s is a schizocar	p?		
A. Groundnut				
B. Desmodium				
C. Crotalaria				
D. Cashew				
The correct answer is option [E	3] 🧬			
A schizocarp is a many-seeded	d simple true fr	uit that develops	s from a syncarpo	ous
ovary.				
28. The blind and sterile female	es are the i	n the castes of	termites.	
A. soldiers				
B. queen				
C. king				
D. workers				
The correct answer is option [D)].			
29. Which one of the following	does not have	hoof or horn?		
A. Porcupine				
B. Deer				
C. Goat				
D. Horse				
The correct answer is option [A	A].			
30. The amount of water loss fi	rom a leaf can l	be detected usi	ng	
A. red litmus paper				
B. pink cobalt chloride paper				
C. blue litmus paper				

D. blue cobalt chloride paper

Cobalt chloride is blue comes in contact with v that water is lost during	vater. This proper	pro- to	•	
that nater is lost daring				
31 is the type of structures which enhan	·		•	•
A. Behavioral adaptation	on .			
B. Structural adaptation	n sto			
C. Evolutional adaptation	on			
D. Physical adaptation				
The correct answer is o	ption [B].			
32. The evidence for ca	an be obtained fr	om one of the f	ollowing excer	ot
A. fossil				
B. anatomy				
C. history				
D. embryology				
The correct answer is o	ption [C]			
33, a British biolog	gist in 1859 propo	ounded a theor	y of organic ev	olution.
A. Charles Darwin				
B. Theodore Schwann				
C. Jean Baptist Lamaro	ck			
D. Hugo de Vries				
The correct answer is o	ption [A].			
34. The stinging and bit	ing mechanism o	f some animals	are for	
A. feeding				

The correct answer is option [D]

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B. defence	
C. movement	
D. all of the above	
The correct answer is option [B].	
35. Animals aestivate when the environment in which the	ey live becomes and
A. hot and dry	
B. cold and wet	
C. warm and humid	
D. windy and snowy	
The correct answer is option [A]	
36. One of the major criticisms against Mendelian laws is	s that they do not recognise
that	
A. One trait is often controlled by many pairs of genes	
B. single factor inheritance is never a reality	
C. complete dominance is always possible	
D. incomplete dominance is not possible	
The correct answer is option [A]	
37. The nature of the mouth parts of dragonfly is	
A. probosis	
B. mandibulate	
C. rostrum	
D. cilliate	
The correct answer is option [B].	

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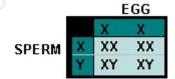
38, and	d are adaptive	features of plan	nts to desert co	nditions.
A. Thick barks, su	cculent stems and s	sunken stomata		
B. Thin barks, suc	culent stems and s	unken stomata		
C. Thin barks, air	floats on stems and	sunken stomat	a	
D. Air spaces in ti	ssues, adventitious	roots and thick	barks	
The correct answer	er is option [A]			
39. Who formulate	ed the theory of nat	ural selection in	evolution?	
A. Louis Pasteur				
B. Charles Darwin	ı			
C. Jean Lamarck				
D. Mathias Schne	ider			
The correct answe	er is option [B]			
40. Which one of	the following plants	do not possess	succulent ster	m?
A. Euphorbia				
B. Cactus				
C. Casuarina				
D. Baobab tree				
The correct answer	er is option [C].			
41. Animals living in their body.	n dry places develo	p on their s	skin to prevent	water loss from
A. feathers				
B. hairs				
C. scales				
D. pores				
The correct answe	er is option [C].			

- 42. The feeding mechanism of an ant is _____.
- A. biting and sucking
- B. sucking
- C. biting and chewing
- D. squeezing and swallowing

The correct answer is option [C].

43. The table is a punnett square for sex determination in man.

Which of the following determines a normal male offspring?



- A. X
- B. Y
- C. XX
- D. XY

The correct answer is option [D]

- 44. Failure of species to adapt to any environment may lead to _____.
- A. domination
- B. competition
- C. stunted growth
- D. extinction

The correct answer is option [D]

- 45. Insects have very hard chitinous externally located skeleton called _____.
- A. endoskeleton

B. exoskeleton		
C. ectoskeleton		
D. all of the above		
The correct answer is option [B].		
46. The type of vegetation of a particu	lar habitat is affected by the	following except
A. nature of soil particles		
B. amount of rainfall		
C. mineral content of the soil		
D. depth of the water table		
The correct answer is option [D]		
47 is a behavioural adaptation in inactive condition.	which some animals spend	hot weather in
A. Aestivation		
B. Hibernation		
C. Nuptial flight		
D. Tunnelling		
The correct answer is option [A].		
48. Which one of the following is a type	e of adaptation possessed b	y organisms?
A. Counter shading		
B. Warning		
C. Mimicry		
D. All of the above		
The correct answer is option [D]		

49. In the geologic time table	, the Mesozoic e	era is the age of	
A. mammals			
B. marine reptiles			
C. ancient life			
D. none of the above			
The correct answer is option	[B].		
50. The spines and scales of	porcupine and s	caly anteater are st	ructures used for
col,			
A. excretion of waste matter			
B. defence against predators	E.		
C. basking			
D. mating and reproduction			
The correct answer is option	[B].		
51. Which of the following is n	ot a herbivore?		
A. Longhorn beetle			
B. Ant			
C. Honey bees			
D. Dragonfly			
The correct answer is option	[D].		
It feeds on mosquitoes.			
52. Which one of the following	g animals does r	not have scales?	
A. Lizards	30%		
B. Snakes			
C. Tortoises			

D. Crocodiles		
The correct answer is option [C].		
53. The gradual, cumulative, adaptive long period of time resulting in emerg		_
A. adaptation		
B. survival		
C. organic		
D. variation		
The correct answer is option [C]		
54. The beak of the is strong	g, short and conical.	
A. sunbird		
B. parrot		
C. hen		
D. weaver bird		
The correct answer is option [D].		
.5		
55. A green snake in a green grass is because of its	able to escape unnoticed from	n predators
A. disruptive colouration		
B. counter shading		
C. warm colouration		
D. cryptic colouration		
The correct answer is option [D]		

57. According to Charles Darwin's theory of survival of the	of evolution, natural selec	tion involves th
A. weakest		
B. most populous species		
C. youngest		
D. fittest		
The correct answer is option [D]		
Charles Darwin deduced that in a populat reproduce are the individuals whose variations over the rest.		
Over the rest.		
59. What is the function of the male adult	honey bee?	
A. To clean the hive.		
B. To ventilate the hive.		
C. To mate with the queen.		
D. To care for the young.		
The correct answer is option [C]		
60. The behavioural adaptation in which s inactive condition is known as	ome mammals spend col	d season in
A. burrowing		
B. aestivation		
C. hibernation		
D. all of the above		
The correct answer is option [C]		

61. Charles Darwin's theory on is base	ed on	
A. adaptation		
B. genetic drift		
C. mandolin inheritance		
D. natural inheritance		
The correct answer is option [D]		
According to Darwin, natural selection driving force behind evolutionary cha	/\r`.	nental pressures, is th
62. The wing of a bat and that of a bir are examples of	rd, the flippers of a whale a	and the fins of a fish
A. adaptive radiation		
B. vestigial structures		
C. divergent		
D. convergent		
The correct answer is option [C]		
Divergent is the process of two or modissimilar. Meanwhile, in convergent emore similar in appearance as they as	evolution, unrelated specie	es become more and
63. The rate of is not affected by	·	
A. embryology		
B. natural selection		
C. gene flow		
D. genetic drift		
The correct answer is option [A].		
64. In ecology, the transect method of	an be used to estimate th	e

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A. number of plants	s and animals in an ar	ea		
B. population of a p	particular plant specie	es		
C. number and type	es of plants in an area	1.05		
D. heights of trees	in a section of a fores	st		
The correct answer	is option [C]			
65. Hormones are _				
A. secreted into the	e blood through duct	S		
B. secreted directly	y into the blood strea	m g		
C. inactive chemica	al substances in the b	lood stream		
D. non-specific in t	their mode of action			
The correct answer	is option [B]			
66. Which of the fo	llowing is one of the L	amarck theories?		
A. Some variations than others.	are more variable to	existence in a give	n ecological er	nvironment
B. All living organis	ms are constantly inv	olved in a struggle	for existence.	
C. The size of a giv	en population remain	s fairly constant.		
D. New species ori	ginate through the inh	neritance of acquir	ed traits.	
The correct answer	is option [D]			
67 are long p	reserved remains or ir	mprints of organisr	ns that once liv	ved.
A. Fossils		35.0		
B. Skeletons				
C. Bones				
D. None of the abo	ove			
The correct answer	is option [A].			

68. In contrast to the more recent fossil bearing are more likely to contain	g rocks, the older fos	ssil bearing rocks
A. animal remains than plant remains		
B. invertebrates rather than vertebrates		
C. flowering plants rather than smaller vertebra	ates	

D. protozoans rather than fishes

The correct answer is option [A]

69. Which of the following represents the evolutionary sequence in these plants? 1. Flowering plants; 2. Ferns; 3. Mosses; 4. Algae; 5. Conifers.

The correct answer is option [D]

70. Which one of the following laws states that during the development of an individual, it passes through many embryonic stages that its ancestors underwent simply because the mechanism of development was inherited from common ancestor?

- A. cytology
- B. embryology
- C. fossilization
- D. none of the above

The correct answer is option [D].

71. Fossil records found in sedimentary rocks offer some explanation for the theory of because _____.

A. the deposits have remains of the organism's characteristic of when they were formed

B. different strata have remains of organisms of the same kind	
C. only organisms with strong parts are fossilized	
D. animal and plant fossils found, still had some physical resemblar organism	nce to the livir
The correct answer is option [A]	
72. Which of the following is not an evidence supporting organic ev	olution?
A. Comparative anatomy	
B. Vestigial organs	
C. Mutation	
D. Fossils	
The correct answer is option [C].	
73. Homologous structures can be used to explain the evidence of	
A. comparative anatomy	
B. fossils	
C. vestigial organs	
D. genetics and man	

The correct answer is option [A].

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74. Darwin is considered the first scientist	t who correctly explained t	he theory of
A. special creation		
B. spontaneous generation		
C. use and disuse		
D. organic		
The correct answer is option [D]		
75. The praying mantis feeds on		
A. leaves		
B. fluids		
C. insects		
D. flowers		
The correct answer is option [C].		
It feeds on living insects; larger species h frogs, birds, snakes and even rodents.	ave been known to prey or	n small lizards,
	ALLES,	X (Sall)
76. Which one of the following sets are the	ie final products of aerobic	respiration?
A. Water, carbon dioxide and energy		
B. Water, carbon dioxide and pyruvic acid	d	
C. Glucose, energy and urea		
D. Carbon dioxide and energy		
The correct answer is option [A]		

77. The scientific name for the "flame of t	he forest" plant is	
A. Hibiscus esculentus		
B. Vernonia sp.		
C. Aloe sp.		
D. Delonix regia		
The correct answer is option [D].		
78 is the series of gradual and acundergone in response to changes in the lives.	-A.V.	1/2/2
A. Evolution		
B. Development		
C. Growth		
D. Adaptation		
The correct answer is option [A].		
79. In tapeworms, suckers on the scolex a	are used for	
A. sucking the blood of the host		
B. holding fast to the host		
C. reproduction		
D. gaseous exchange		
The correct answer is option [B]		
80. Which of the following is not one of D selection?	arwin's deductions conce	erning natural
A. Food and other needs are abundant.		
B. There is a fierce competition among o	ffsprings.	
C. The weaker offsprings are eliminated.		

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D. Nature selects those that will survive to reproduce their kind.

The correct answer is op-	tion [A]	
81. The phylum Arthropod	da is full of members that _	and
A. bite and chew		
B. sting and bite		
C. sting and chew		
D. pierce and suck		
The correct answer is op-	tion [B].	
82. Which of the following	g parts of the tongue is sen	sitive to sugar?
A. Tip		
B. Back		
C. Right side		
D. Left side		
The correct answer is op-	tion [A]	
83 postulated	d the concept of use and di	suse of organs.
A. Charles Darwin	62	
B. Jean-Baptiste Lamarc	:k	
C. Gregor Mendel		
D. Alfred Russel Wallace		
The correct answer is op-	tion [B]	

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TOPIC: HORMONAL COORDINATION

DIRECTION: Choose the correct answer from the lettered options.

1. IAA is the most abundant natural auxin manufactured in plants and it stands for

A. indoleacetyl acid	
B. indoleacetate acid	
C. indoleacetic acid	
D. indoaldyhide acid	
The correct answer is option [C].	
2. Which of the following is a hormone secreted by the pituitary gland?	
A. Oxytocin	
B. Thyroxine	
C. Parathormone	
D. Thyroid	
The correct Answer is option [A].	
3. Increase in blood sugar level stimulates the production of	
A. insulin	
B. oestrogen	
C. progesterone	
D. prolactin	
The correct answer is option [A].	
xest xest xest xest xest xest xest xest	

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4. Which of these is not a function	of the liver?	
A. Storage of blood		
B. Secretion of hormone		
C. Detoxication		
D. Production of heat		
The correct Answer is option [B].		
5. What organ is located just below	v the diaphragm?	
A. Kidney		
B. Liver		
C. Stomach		
D. Heart		
The correct Answer is option [B].		
6. The is the largest internal of	organ of a human.	
A. liver		
B. stomach		
C. skin		
D. lungs		
The correct Answer is option [A].		
7. The endocrine system acts		
A. swiftly and slowly		
B. chemically and swiftly		
C. slowly and chemically		
D. internationally and chemically		
The correct answer is option [C].		
8. The abscisic acid is a plant	produced in matured	and

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A. hormone, green leaves, fruits, root c	ар
B. sap, green, leaves, roots	
C. secretion, leaves, barks, stem	
D. excretion, leaves, barks, fruits	
The correct Answer is option [A].	
9. Pituitary gland is also referred to as t	the gland.
A. thyroid	
B. master	
C. coordinate	
D. effector	
The correct answer is option [B].	
10. Endocrine hormone molecules are s	secreted directly into the
A. neuron	
B. exocrine gland	
C. blood stream	
D. neuron-reflex	
The correct Answer is option [C].	
11. Which of the following is not a role o	f auxins?
A. Abscission	
B. Cell division	
C. Fruit development	
D. Leaf formation	
The correct answer is option [B].	
12. Over secretion of insulin leads to	blood sugar level.
A an increase in	

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B. a fall in			
C. an average			
D. a constant			
The correct Answer is opt	tion [B].		
13. The hormone that regu	ulates the growth	n of the body is known as .	hormone.
A. adrenalin			
B. pitocin			
C. prolactin			
D. somatotropic			
The correct answer is opt	ion [D].		
14. Hormones are			
A. inorganic chemicals se and fat metabolism in the		ancreas, central to regulat	ing carbohydrate
B. chemical substances s	secreted by endo	ocrine glands in response	to various stimuli
C. organic materials that	aid digestion of	food substances	
D. reproductive chemical	s secreted to aid	d parturition	
The correct Answer is opt	tion [B].		
15. Which of the following	is not a plant ho	ormone?	
A. Cytokines			
B. Cytotoxins			
C. Auxins			
D. Abscisic acid			
The correct Answer is opt	tion [B].		

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16. Contraction of the uterus muscles hormone.	during child birth is a function of
A. oxytocin	
B. gonadotropic	
C. thyroxin	
D. adrenalin	
The correct answer is option [A].	
17. Endocrine glands release their sec	cretions directly into the
A. blood stream	
B. ducts	
C. heart	
D. intestines	
The correct Answer is option [A].	
18. Adrenaline gland is located at the	- C.
A. left part of the kidney	
B. top of the kidney	
C. right-side of the kidney	
D. middle of the brain	
The correct Answer is option [B].	
19. Gastrin is secreted in the	
A. hand	
B. eye	
C. stomach	
D. brain	
The correct Answer is option [C].	

20. Testosterone and androste	erone are hormones located in the
A. penis	
B. testes	
C. scrotum	
D. anus	
The correct answer is option [C	D]. ((1 ⁵)
21. Cytokinins and auxins act to	ogether to promote the replication of
A. RNA	
B. IAA	
C. DNA	
D. mRNA	
The correct answer is [C]	
22 brings about ageing	g in leaves.
A. Cytokinins	
B. Auxins	
C. Abscisic acid	
D. Gibberellins	
The correct Answer is option [C	C].
23. Ethene gas is produced in	, and
A. the hands, legs, head	
B. blood, water, finger	
C. leaves, stems, young fruits	
D. stems, sticks, leaves	
The correct Answer is option [0	D].

24. The testis is located in the	- <u>Z</u>	
A. scrotum		
B. boxers		
C. prostate gland		
D. rectum		
The correct Answer is option [A].		
25. Hormones are substances that are	e in nature.	
A. electrical		
B. chemical		
C. civil		
D. mechanical		
The correct answer is option [B].		
26. How does the nervous system act	t?	
A. Swiftly, instant and electronically		
B. Slowly, instantly and electrically		
C. Swiftly, instantly and electrically		
D. Swiftly, instantaneousy and electric	fyingly	
The correct answer is option [C].		
27. Excessive development of sexual caused by excess	organs and secondary se	ex characters in men is
A. thyroxine		
B. hormone		
C. testosterone		
D. blood		

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The correct Answer is opt	tion [C].	
28. Over secretion of the	pituitary growth hormone leads to _	
A. gigantism		
B. obesity		
C. dwarfism		
D. anorexia		
The correct Answer is opt	tion [A].	
29. Where is the pituitary	gland located?	
A. Abdomen		
B. Head		
C. Mid-brain		
D. Kidney		
The correct Answer is opt	tion [C].	
30. Which of the following	g is a plant hormone?	
A. ADH		
B. Growth hormone		
C. Ethene		
D. Calcitonin		
The correct Answer is opt	tion [C].	
31. Hormones are produce	ed by	
A. ductless glands		
B. glands with ducts		
C. all glands		
D. ductal gland		

The correct Answer is o	option [A].			
32 is one of the	diseases of the	kidney.		
A. Malaria				
B. Fever				
C. Yellow fever				
D. Diuresis				
The correct Answer is o	option [D].			
33. Root growth in sten	n cuttings is pron	noted by hormo	nes.	
A. True				
B. False				
The correct answer is c	option [A].			
34. In plants, hormones	are manufacture	ed in the followin	ng except	<u></u>
A. apical meristems of	roots and shoots	Sall'S		
B. young growing leave	es			
C. developing seeds o	r fruits			
D. bright coloured flow	vers			
The correct answer is o	option [D].			
35. Rapid stem elongat	ion in dwarf plan	ts is stimulated	by	
A. cytokinins	2500		ž	
B. gibberellins				
C. auxin				
D. thyroxin				
The correct answer is c	ption [B].			

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40. Exocrine glar	nds release their che	emicals into	_·	
A. vein				
B. duct				
C. blood streams	S			
D. arteries				
The correct Answ	wer is option [B].			
41. Oestrogen is	secreted in the			
A. sperm				
B. ovum				
C. ovary				
D. fallopian tube	arris.			
The correct Answ	wer is option [C].			
42. Together with system.	n the nervous system	n, the endocrine sy	ystem forms a combine	ed
A. neuro-endocr	rine			
B. neuro-exocrin	ne			
C. neuro-crine				
D. nerve-end				
The correct Answ	wer is option [A].			
43. The adrenal g	gland secretes	_ hormone.		
A. thyroxine				
B. oxytocin	X.C			
C. prolactin				
D. adrenaline				

The correct Answer is option [D].	
44. One of the effects of abscisic acid is that	
A. it suppresses the growth of buds	
B. it increases the growth of buds	
C. it encloses the height of buds	
D. allows all kinds of growth	
The correct Answer is option [A].	
45. Adrenaline hormone is produced by the following stimulations except	-e5-
A. fright	
B. anger	
C. stress	
D. laughter	
The correct answer is option [D].	
46. Which of the following is produced during ovulation?	
I Progesterone	
II Testosterone	
III Adrenaline	
A. I and II only	
B. III only	
C. I only	
D. II and III only	
The correct answer is option [C].	

47. What organ is respor	nsible for the me	tabolism of food sul	ostances?
A. Kidney			
B. Stomach			
C. Liver			
D. Lungs			
The correct Answer is op	otion [C].		
48 is a growth inh	ibitor whose effe	ects generally oppos	se those of auxins.
A. Gibberellins			
B. Abscisic acid			
C. Cytokinins			
D. Hormone			
The correct Answer is op	otion [B].		
49 is not a plan	t hormone.		
A. Auxin			
B. Parathormone			
C. Gibberellins			
D. Cytokinins			
The correct answer is op	otion [B].		
50. In animals, hormones	s are manufactui	red in the	
A. endocrine glands			
B. blood stream			
C. gastrointestinal tract			
D. lungs			
The correct answer is on	otion [A].		

TOPIC: NERVOUS COORDINATION

DIRECTION: Choose the correct answer from the lettered options.

1. The part of the nervous system	em that interprets blink	king of the eye is the	
A. spinal cord			
B. cerebrum			
C. hind brain			
D. olfactory lobe			
The correct answer is option [A	A]		
The spinal cord acts as a path coordinating simple reflex acti			s, while
2. The brain is made up of	main parts.		
A. 4			
B. 2			
C. 1			
D. 3			
The correct Answer is option [D].		
3. From the following options,	sensory receptors are	often found in the	and
XOO'			
A. ear, eye			
B. bones, arteries			
C. blood, bones			
D. eye lashes, teeth			
The correct Answer is option [A].		
4. Which one of the following i	s not a reflex action?		
25			

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20			
A. Coughing			
B. Sleeping			
C. Sneezing			
D. Blinking			
The correct answer is option	[B].		
5. The cerebrum and olfactor	y lobes are parts of the		
A. forebrain			
B. hindbrain			
C. midbrain			
D. medulla			
The correct Answer is option	[A].		
6. The complex network that is the system.	coordinates the various ac	ctivities of multicel	lular animals
A. respiratory			
B. skeletal			
C. muscular			
D. nervous			
The correct answer is option	[D].		
7. The hypothalamus function	ns in the regulation of all ex	xcept	
A. water balance			
B. sleep			
C. blood pressure			
D. voluntary actions			
The correct answer is ontion	וחו		

8. Sensory receptors also acts as		
A. information		
B. information collectors		
C. informal collections		
D. collectors		
The correct Answer is option [B].		
9. The complex network that coordinatis the system.	ates the various activities of multion	cellular animals
A. respiratory		
B. skeletal		
C. muscular		
D. nervous		
The correct answer is option [D].		
10. The brain and spinal cord make u	p the nervous system.	
A. peripheral		
B. autonomic		
C. central		
D. somatic		
The correct answer is option [C]		
11. Sensory receptors also acts as		
A. information		
B. information collectors		
C. informal collections		
D. collectors		
The correct Answer is option [R]		

12. Axons are referred	d to as	
A. nerve fibres		
B. muscle fibres		
C. skeletal cells		
D. hormones		
The correct Answer is	s option [A].	
13. The nervous syste	em of vertebrates consist of the	
A. central nervous sy	ystem (CNS) and peripheral nervous system (PNS)	
B. center nervous sys	stem and upper nervous system	
C. terrestrial nervous	s systems and aquatic nervous system	
D. sensory nervous s	system and motor nervous system	
The correct Answer is	s option [A].	
150		
14. The brain is made	up of main parts.	
A. 4		
B. 2		
C. 1		
D. 3		
The correct Answer is	s option [D].	
15. The basic structure	ral unit of the nervous system is the cell.	
A. neutron		
B. electron		
C. nephron	XC2	
D. nerve		
The correct Answer is	s option [D].	

16. A bundle of long nerve fibre	es is called	
A. fabric		
B. fibrings		
C. nerves		
D. nervous		
The correct Answer is option [C	C].	
17. The spinal nerves and crania	al nerves are part of the	
A. digestive system		
B. central nervous system		
C. peripheral nervous system		
D. circulatory nervous system		
The correct Answer is option [C	C].	
A SHOW		
18. The spaces between neuror chemical reaction are called	nes through which impulses	are sent by means of a
A. axons		
B. ganglia		
C. synapses		
D. dendrites		
The correct answer is option [C	0]	
19. What are the different types	s of neurons?	
A. Senses, motor and associate	ed neurons	
B. Sensory, association and mo	otor neurons	
C. Association, sensed and mo	otors neurons	
D. Motor, sensed and associate	es neurons	
The correct answer is option [F	31	

20. The two small structures placed	anteriorly on the cerebrum are called	·
A. fibres		
B. olfactory lobes		
C. corpus callosum		
D. thalamus		
The correct answer is option [B].		
21. An automatic response of the boo	ody to a stimulus is known as	
A. a voluntary action		
B. an involuntary action		
C. an automatic action		
D. an accidental action		
The correct answer is option [B].		
A SHE		
22. The meninges in the brain respon	nsible for protection of the brain is know	n as
·		
A. dura mater		
B. arachnoid mater		
C. pia mater		
D. none of the above		
The correct answer is option [A].		
23. The cerebrum and olfactory lobe	es are parts of the	
A. forebrain		
B. hindbrain		
C. midbrain		
D. medulla		
The correct Answer is option [A].		

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24. Reading the verdict of a case by a judge	or magistrate is an example of
A. a reflex action	
B. an instinct	
C. a conditioned reflex	
D. a voluntary action	
The correct answer is option [D]	
25. In a mammal, stimulus is transferred from nervous system through the	n the receptor muscle to the central
A. motor neurons	
B. effector muscles	
C. dendrites	
D. sensory neurons	
The correct answer is option [D]	
26 is the largest part of the brain.	
A. Forebrain	
B. Cerebellum	
C. Cerebrum	
D. Medulla oblongata	
The correct Answer is option [C].	

27. Nervous system passes messages	s mainly as alor	ng nerves.
A. electrical impulses		
B. manual impulses		
C. mechanical impulses		
D. blood impulses		
The correct Answer is option [A].		
28 stimulates secretion from	the salivary gland and	the constriction of the iris
A. Somatic nervous system		
B. Parasympathetic nervous system		
C. Cranial nerves		
D. Spinal cord		
The correct Answer is option [B].		
alst the		
29. The response to the source of the perceived is	e reflex action "salivation	on" when food is
A. eating the food		
B. staring at the food		
C. flow of saliva		
D. flow of salivate		
The correct answer is option [C].		
30. The part of the nervous system th	nat interprets blinking o	of the eye is the
A. spinal cord		
B. cerebrum		
C. hind brain		
D. olfactory lobe		
The correct answer is option [A]		

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The spinal cord acts as a pathway between the brain and the spinal nerves, while coordinating simple reflex actions and automatic reflexes.

31. The hypothalamus functions in the regulation of all except _____.

A. water balance	
B. sleep	
C. blood pressure	
D. voluntary actions	
The correct answer is option [D]. 32. In voluntary action, sensory nerves sthe A. brain	send impulses to the spinal cord and then to
B. thalamus	
C. cranium	
D. pons varolli	
The correct answer is option [A].	
33. The following make up the forebrain	except
A. olfactory lobes	
B. cerebrum	
C. hypothalamus	
D. cerebellum	
The correct answer is option [D].	
34. The brain and spinal cord are part o	f the
A. endocrine system	

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B. circulatory system		
C. nervous system		
D. skeletal system		
The correct Answer is	option [C].	
35. From the followingand	g options, sensory receptors are often fo 	ound in the
A. ear, eye		
B. bones, arteries		
C. blood, bones		
D. eye lashes, teeth		
The correct Answer is	option [A].	
36. The nervous system	m is divided into parts.	
A. 3		
B. 4		
C. 2		
D. 6		
The correct Answer is	option [C].	
37. The centre of learn	ning and memory in the human brain is t	he
A. medulla oblongata		
B. cerebellum		
C. cerebrum		
D. olfactory lobe		
The correct answer is		
38. The centre for sen	isation of pains, touch and anger is the ₋	·

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A. spinal cord			
B. thalamus			
C. grey matter			
D. cortex			
The correct answer is option	on [B].		
39 detects stimuli fr	om the external a	nd internal environ	ment.
A. Sensory givers			
B. Sensory banners			
C. Sensory receptors			
D. sensory organelles			
The correct Answer is option	on [C].		
40. The nervous system co	nsists of pa	arts.	
A. 3			
B. 2			
C. 4			
D. 6			
The correct answer is option	on [B]. Central and	d Peripheral nervou	ıs systems
41. The stimulus receiver in	the body is called	d the	
A. sensory nerve			
B. motor nerve			
C. receptor organ			
D. spinal cord			
The correct answer is optic	on [C]		

42. What is coordination?		
A. It is the arrangement of cell, tissue, o	rgan and system in the boo	ly.
B. It is the process by which different perfectiveness.	arts of an organism work to	gether for proper
C. It is the aligning of various organs of functioning.	the body, hence ensuring p	oroper body
D. It is the electrical collation of the ner	vous tissues of the body.	
The correct Answer is option [B].		
43. Voluntary actions areA. reflex actionsB. resident in the neck		
C. actions in the fore limbs		
D. anticipated actions		
The correct answer is option [D].		
44. The central nervous system consists	s of the and	
A. brain, spinal cord		
B. head, spinal cord		
C. arteries, brain		
D. sense organs, nerves		
The correct Answer is option [A].		
45. In a typical nerve cell, electrical activ	vity generated is generated	at the
A. myelin sheath		
B. dendrites		
C. axon		
D. node of Ranvier		

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The correct answer is option [D]

46. This structure can be found in the _____.



- A. sympathetic and parasympathetic nervous systems
- B. peripheral and central nervous systems
- C. peripheral nervous system only
- D. central nervous system only

The correct answer is option [B]

The diagram depicts a neurone. A neurone is the basic structural unit of the nervous system which comprises the peripherial and central nervous systems.

- 47. One of the functions of a neurone is _____.
- A. only receiving nerve impulses
- B. receiving and transmitting impulses
- C. giving out reflex action
- D. the total actions in the body

The correct Answer is option [B].

48. What is a neurone?

A. It is the entire structure of the central nervous system responsible for the transmission of nerve impulses.

- B. It is the organized part of the brain and spinal cord that is responsible for only receiving sensory information.
- C. It is the basic unit of nervous system which is responsible for the transmission of impulses within the body.
- D. It is the actual point of transmission of impulses within the body.

The correct Answer is option [C].		
49. The central nervous system consists of the	e and	
A. fore and hind		
B. brain and spinal cord		
C. sensory and motor		
D. nerves and spinal cord		
The correct Answer is option [B].		
50. The system passes messages as c	chemical substances in the	e blood.
A. nervous		
B. digestive		
C. circulatory		
D. endocrine		
The correct Answer is option [D].		
51. The is the centre for controlling body	temperature in the brain.	
A. cerebrum		
B. cerebellum		
C. medulla		
D. hypothalamus		
The correct answer is option [D]		
The hypothalamus acts as a link between the r system. It controls endocrine secretions by mo levels in blood.		

TOPIC: REGULATIONS OF INTERNAL ENVIRONMENT (HOMEOSTASIS)

DIRECTION: Choose the correct answer from the lettered options.

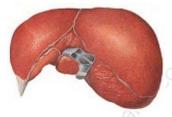
- 1. Which of the following are components of glomerular filtrate?
- A. All the components of blood except mineral salts
- B. Blood cells, amino acid, salts and nitrogenous wastes
- C. All the components of blood except plasma protein and cells
- D. Plasma proteins, red and white blood cells

The correct answer is option [C]

- 2. Which one of the following is an effect of hepatitis?
- A. Yellowing of eyes and skin
- B. Bulimia nervosa
- C. Anaemia
- D. Indigestion

The correct answer is option [A]

3. What is the name of this organ?



- A. Kidney
- B. Leg
- C. Liver
- D. Hand

The correct Answer is option [C].

		Biology Exam Ques	tions and Ansv
	4. The cup-shaped part of the Bowman's c	apsule contains the	
29	A. nephridium	25.5	
	B. glomerulus		
	C. loop of henle		
	D. nephron		
	The correct answer is option [B]		
	Ultrafiltration occurs in the glomerulus.		
	5 is a stimulus that cannot be percei	ved through the skin of	f mammals.
	A. Light		
	B. Pressure		
	C. Pain		
	D. Heat		
	The correct answer is option [A]		
	6. The solute concentration of blood rises	when we	
	A. sweat profusely		
	B. eat very little salt		
	C. drink plenty of water		
	D. shiver		
	The correct Answer is option [A]		

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7. Which of the following endocrine glands i	s a master giand?	
A. Pituitary gland		
B. Thyroid gland		
C. Pancreas		
D. Ovary		
The correct answer is option [A]		
The pituitary gland is called the 'master glan other endocrine glands.	id' because it controls the	functions of
8 is the ability of an organism or cell adjusting its physiological processes.	to maintain internal equilib	rium by
A. Hemoglobin		
B. Hydrogen		
C. Hormone		
D. Homeostasis		
The correct Answer is option [D].		
9. Water balance in the body is one of the fu	unctions of the	
A. liver		
B. brain		
C. hypothalamus		
D. kidney		
The correct answer is option [D].		

10. Body fluids include	_, aı	nd		
A. blood, lymph, intercellular	fluid			
B. body tissues, organs, bloc	od			
C. fingers, water, sweat				
D. urine fluid, uric acid, swea	t			
The correct Answer is option	[A].			
11. Aldosterone is a hormone	from the	·		
A. liver				
B. adrenal cortex				
C. thyroid cortex				
D. lungs				
The correct Answer is option	[B].			
12 wastes are remo	oved by the	e kidney.		
A. Oxygenous				
B. Nitrogenous				
C. Carbonated				
D. Phosphorous				
The correct Answer is option	[B].			
13. Reduction of cholesterol	intake is a r	emedy for	-co	
A. cancer				
B. gall stones				
C. kwashiorkor				
D. rickets				
The correct answer is option	[B].			

14. The control mechanism feedback mechan		c pressure constant i	s known as a
A. negative			
B. positive			
C. kinetic			
D. normal			
The correct Answer is optic	on [A].		
15. The skin is an organ for	touch and		
A. excretion			
B. respiration			
C. temperature regulation			
D. sight			
The correct answer is optio	n [A]		
16. The ability of organisms	to maintain a constant	t internal environmen	t is known as
·			
A. diuresis			
B. endosmosis			
C. plasmolysis			
D. homeostasis			
The correct answer is option	n [D]		
17. Blood vessels supply	to the tissues of t	he skin.	
A. blood			
B. water			
C. food and oxygen			
D. vitamins			

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The correct answer	er is option [C].			
18. The removal of	excess urine from the	body through the	kidney is called)
A. dialysis				
B. diuresis				
C. diabetes				
D. oedema				
The correct answe	er is option [B].			
19. The condition I	known as myxoedema	is caused by the d	eficiency of	
A. adrenalin				
B. vitamin A				
C. insulin				
D. thyroxine				
The correct answe	er is option [D]			
Myxoedema is cha	aracterized by dry skin	, swellings around t	the lips and nose, mer	ntal
deterioration, and	a subnormal basal me	tabolic rate.		
	echanism used to detended on the contract of t		nges in the internal	
A. homeostatic				
B. hormonal				
C. regulatory				
D. internal				
The correct Answe	er is option [A].			
	XO"			
21. The	has the overall contro	ol over the homeos	tatic processes in the	1
body.				

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A. spinal cord		
B. brain		
C. bones		
D. muscles		
The correct Answer is option [B].		
22. The regulation of the internal envi	ronment of the body is termed	
A. hemolysis		
B. homeostasis		
C. plasmolysis		
D. regulation		
The correct answer is option [B].		
23. Keeping the osmotic pressure cor	nstant is an example of a process.	
A. homeostatic	com ame	
B. internal		
C. hormonal		
D. regulatory		
The correct Answer is option [A].		
alle		
24. What makes up the internal enviro	onment of an organism?	
A. Urine, sweat and blood		
B. Body fluid		
C. Urine alone		
D. Water alone		
The correct Answer is option [B].		
60		
25. Which of the following is not a fun	action of the liver?	

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A. Regulation of blood sugar	M.S.
B. Storage of bile	
C. Formation of bile	
D. Breakdown of excess amin	no acids
The correct answer is option	[B]
26. Hypothalamus is a small b	oody just above the gland.
A. ADH	
B. pituitary	
C. endocrine	
D. thyroid	
The correct Answer is option	[B].
27 animals maintain a	constant body temperature.
A. Endothermic	
B. Hexathermic	
C. All	
D. Exerthermic	
The correct Answer is option	[A].
28. The mammalian skin cons	sists of major layers.
A. 1	
B. 3	
C. 2	
D. 4	
The correct answer is option	[C].

The epidermis and the dermis. The subcutaneous adipose layer or hypodermis is not part of the skin, and lies below the dermis. Its purpose is to attach the skin to underlying bone and muscle as well as supplying it with blood vessels and nerves.

29. The entire surface of the body is co	overed by	
A. hairs		
B. pores		
C. flesh		
D. skin		
The correct answer is option [D].		
30. How are kidney stones formed?		
A. They are formed when mineral salts	in urine come out of solutior	n as solid crystals.
B. They are produced by the body whe as solid crystals.	en mineral acids in urine com	e out of solution
C. They are produced during body osn	nosis.	
D. They are required for proper kidney	functioning.	
The correct Answer is option [A].		
31. The normal pH of blood is		
A. 7.8		
B. 8.7		
C7.4		
D. 7.4		
The correct Answer is option [D].		
×e ⁵		
32. Which one of these is not a homeos	static mechanism?	
A. Osmoregulation		
B. Excretion		

C. Respiration	
D. Acid base balance	
The correct answer is option [C].	
33. The is the largest organ in	the body.
A. liver	
B. kidney	
C. skin	
D. sebaceous gland	
The correct answer is option [C].	
34 and are produced at	the hypothalamus.
A. Anti-diuretic hormone and oxyt	cocin
B. ADI and OXI	
C. Anti-durex hormone and mamn	nary hormone
D. TSH and ADH	
The correct Answer is option [A].	
35. Over secretion of the growth ha child to become	normone during childhood and adolescence causes
A. gigantic	
B. dwarfic	
C. energetic	
D. short	
The correct Answer is option [A].	
36. The increase in width of blood is known as	vessels in the mammal's skin at high temperature

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A. vasodilation		
B. sweating		
C. vasoconstrict	ion	
D. shivering		
The correct answ	ver is option [A]	
	ses a large volume of blood to flov to the surroundings via convection	
38. Bile is produc	ced in the	
A. gall bladder		
B. pancreas		
C. spleen		
D. liver		
The correct answ	ver is option [D]	
39. The acronym	ADH stands for	
A. Anti-Dehydra	tion Hormone	
B. Acute Dilation	n Hormone	
C. Anti-diuretic	Hormone	
D. Another Diala	ted Hormone	
The correct answ	ver is option [C].	
40 is the pig	gment that gives the skin its coloui	M5.0 MS.
A. Melanin		
B. Tannin		
C. Cyanin	XV	
D. Haem		
The correct answ	ver is option [A].	

41. Diseases of the liver includes the following	except
A. gallstones	
B. cancer of the liver	
C. nephritis	
D. hepatitis	
The correct answer is option [C]	
42. What is a kidney stone?	
A. It is a hard substance formed in the liver; sl	haped as the kidney.
B. It is a stony mass formed by mineral matter	that form in the kidney.
C. It is an organic material that grows in the k	idney and intestines of adults.
D. It is a natural stones-like structure; found v from inorganic matter.	vithin the Bowman's capsule; formed
The correct Answer is option [B].	
43 and are part of exothermic ani	mals.
A. Ectotherm, poikilotherm	
B. Enthotherm, exotherm	
C. Mexotherm, poikilotherm	
D. All animals	
The correct Answer is option [A].	
44. The word "homeostasis" is a word.	
A. German	
B. Japanese	
C. Greek	
D. Nigerian	

The correct Answer is option [C].	
45. The pigment in the malphigian layer	responsible for skin colouration is known as
A. haemoglobin	
B. haemocyanin	
C. chlorocruorin	
D. melanin	
The correct answer is option [D]	
46. The top most layer of the skin that c	onsists of flat dead cells is known as
A. dermis	
B. cornified layer	
C. Malpighian layer	
D. epidermis	
The correct answer is option [B].	
47. Drinking excess alcohol can cause _	
A. drunkenness	
B. diarrhea	
C. diuresis	
D. appendicitis	
The correct answer is option [C].	
48. Detoxication in the liver involves	
A. converting proteins to amino acids	
B. emulsification of fats and oils	
C converting excess aluçose into alvo	ogen

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D. breakdown of worn-out red blood cells	s
The correct answer is option [C]	
49. Which of the following is an organ?	
A. Guard cell	
B. Liver	
C. Xylem bundle	
D. Blood	
The correct answer is option [B]	
50. Maintaining a steady internal environr	nent of an organism is known as
A. haemoglobin	
B. homeostasis	
C. homeostasis	
D. hormones	
The correct Answer is option [C].	
51. Which of the following group of organs	s are involved in homeostasis?
A. Kidney, liver, skin and lungs	
B. Mouth, tongue, liver and lungs	
C. Hair, liver, skin and tongue	
D. Sweat, hair, mouth and lungs	
The correct Answer is option [A].	
52. The glomerular nephritis is a kidney co	ondition that occurs commonly in and
A. children and adolescents	
B adults and the aged	

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C. the aged and children	
D. all persons	
The correct Answer is option [A].	
53. The following are diseases of the kidney except	
A. nephritis	
B. kidney stone	
C. diuresis	
D. hepatitis	
The correct answer is option [D].	
Nephritis is an inflammation of the kidney.	
Hepatitis is an inflammation of the liver caused by a virus or a toxin.	
Diuresis is increased secretion of urine	
Kidney stone is a calculus found in the kidney	
54. Which of the following is excreted by the sweat glands?	
I Sulphur	
II Water	
III Salts	
IV Nitrogenous substances	
A. I, II and III only	
B. I, II, III and IV	
C. II, III and IV only	
D. III and IV only	
The correct answer is option [C].	
55. What are the names of the different layers of the epidermis?	
A Cornified layer grandular layer and nalpighian layer	

B. Conifer layer, granular lays and	l Malpighian layer.	
C. Cornified layer, granular layer a	and Malpighian layer	
D. Cornified layers, grand layer ar	nd malphighian layer	
The correct answer is option [C].		
56. The glomerular filtrate contain	s the following substances except _	•
A. water		
B. urea		
C. blood corpuscles		
D. glucose		
The correct answer is option [C]		
The glomerulus acts like a filter th and plasma proteins from passing	ous preventing big molecules such as through it.	blood cells
57. The secrets a hormone the thyroxine.	hat induces the thyroid gland to pro	duce more
A. islets of langerhans		
B. adrenal gland		
C. pituitary gland		
D. parathyroid gland		
The correct answer is option [D]		
58. The skin manufactures and sto	ores vitamin	
A. C		
B. A		
C. B		
D. D		
The correct answer is option [D].		

59. How many lobes does the liver have?	
A. 3	
B. 4	
C. 5	
D. 2	
The correct Answer is option [D].	
60. Regulation of blood sugar level takes place in the	
A. pancreas	
B. ileum	
C. liver	
D. kidney	
The correct answer is option [C]	
The liver regulates blood glucose levels by stimulating the production glucagon and other hormones.	on of insulin,

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TOPIC: REPRODUCTIVE SYSTEM IN MAMMALS

DIRECTION: Choose the correct answer from the lettered options.

1. All of the following takes place after fertilization except	
A. increase in ovary size	
B. gradual colour changes	
C. development of the fruit wall into pericarp	
D. disintegration of fruit wall	
The correct answer is option [D].	
2. In the human female, when two ova are released simultaneously and fertilized;	
ZO ZO	
A. identical twins are produced	
B. fraternal twins are produced	
C. siamese twins are produced	
D. the children produced are genetically identical	
The correct answer is option [B]	
3. A farmer left his land uncultivated for five years before returning to it. What farm method is he using?	ing
A. Modern agriculture	
B. Strip cropping	
C. Bush fallow system	
D. Crop rotation	
The correct answer is option [C]	

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4. The transfer of pollen grains from	n the anther to the stigma of flowers is known as
)	
A. pollination	
B. fertilization	
C. cross pollination	
D. sexual reproduction	
The correct answer is option [A].	
5. Which one of the following is not	a characteristic of wind pollinated flowers?
A. The flowers have no nectar.	
B. Pollen grains are usually tiny.	
C. Pollen grains are usually very ro	ugh.
D. They are scentless.	
The correct answer is option [C].	
6. If an insect cell is left in distilled	water for two hours, it is likely to
A. lose some of its water to the sur	rounding water
B. lose all of its water to the surrou	nding water
C. reproduce by binary fission	
D. become more turgid	
The correct answer is option [D]	
	ic to the contents of the cell, there would be a net the cell, causing it to swell and become turgid.
7. During seed development, the fo that the	llowing changes take place in the ovule except
A. nucleus of the endospem develo	ops
B. guard cells degenerate	
C micropyle expands	

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D. integument becomes the test	a ministra	
The correct answer is option [C].		
8. Which of these statements is n	ot true of insects?	
A. They are anthropods.		
B. Their body is divided into thre	e distinct regions of hea	d, thorax and abdomen.
C. Their thorax comprises three sappendages each.	segments, only two of wh	nich bear a pair of
D. Respiration is by means of tra	chea.	
The correct answer is option [C]		
9. Seeds fail to germinate when t	emperature becomes	
A. too high or too low		
B. average or optimum		
C. optimum		
D. none of the above		
The correct answer is option [A].		
10. A drupe consists of la	ayers.	
A. 2		
B. 4		
C. 5		
D. 3		
The correct answer is option [D].		
11. Which of the following organis	ms lacks a reproductive	organ?
A. Chlamydomonas		
B. Toad		
	D 010 - (050	ALITHOD

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C. Pride of Barba	dos			
D. Cockroach				
The correct answer	er is option [A]			
Chlamydomonas i	s a unicellular organism	n; thus it cannot	possess speciali	zed cells.
12. Placentation of	f plants is best describe	ed as the		
A. arrangement of	f ovules in the ovary			
B. arrangement of	f fruits on the branches	3		
C. development o	of ovules in the ovary			
D. formation of th	e pericarp from the ova	ary wall		
The correct answe	er is option [A]			
13. A structure tha	t developes from the o	vary after fertiliz	ation is called _	
A. leaf				
B. stalk				
C. stem				
D. fruit				
The correct answe	er is option [D].			
14. Dry dehiscent f	fruits are classified acc	ording to	₋ type.	
A. fruit				
B. leaf				
C. pericarp				
D. flower				
The correct answe	er is option [C].			
15. Dispersal by ex	plosive mechanism is o	common in fruits	such as	
A. kolanut				

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B. groundnut			
C. oil bean			
D. cassia			
The correct answer	is option [C].		
16. Fruits that are d	ispersed include all	except	
A. combretum			
B. bougainvillea			
C. tridax			
D. berries			
The correct answer	is option [B].		
17. Which of the foll	owing conditions are	e necessary for seeds to	germinate?
A. Uric acid, very co	old temperature, nitr	ogen and fruits.	
B. Urine, hot tempe	erature, oxygen and v	viable seeds.	
C. Water, suitable t	emperature, stones	and viable seeds.	
D. Water, suitable t	emperature, oxygen	and viable seeds.	
The correct answer	is option [D].		
18. Which one is no	t an example of a mu	ultiple fruit?	
A. Fig			
B. Bread fruit			
C. Apple			
D. Pineapple			
The correct answer	is option [C].		
19. Which one of the	e following is not a c	dicotyledonous seed?	
A. Okra			

b. Pride of barbado	08			
C. Balsam				
D. Flame of the for	est			
The correct answer	is option [D].			
20. Which of the fo	llowing statements is t	rue about fertiliz	zation?	
A. One chromosom	ne from the male joins	another from the	e female.	
B. One gene from t	the male combines with	h another from t	he female.	
C. The male nucleu	us fuses with the femal	e nucleus.		
D. One set of chron	mosomes combines wi	th another set.		
The correct answer	is option [C]			
21. An example of a	dry dehiscent fruit is _	·		
A. cola				
B. palmnut				
C. coconut				
D. groundnut				
The correct answer	is option [A].			
22. One main functi	ion of the amniotic flui	d in pregnant wo	omen is to	
A. protect the foet	us against shock			
B. remove waste pr	roducts from the foetu	s		
C. supply food and	I water to foetus			
D. carry oxygen to	the foetus			
The correct answer	is option [A]			
23. In a drupe only	the and are fl	eshy A. mesoc	arp and endoca	ırp
B. epicarp and mes	socarp			

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C. epicarp and endocarp				
D. none of the above				
The correct answer is option [B].			
24. Which one is not an examp	ole of a cypsela?			
A. Emilia				
B. Tridax				
C. Obeche				
D. Eupatorium				
The correct answer is option [[C].			
25. The process of transfering stigma of the same flower is c		om the anthers of	f one flower to the	
A. cross pollination				
B. self-fertilization				
C. self pollination				
D. cross fertilization				
The correct answer is option [C].			
26. In grasshopper/cockroach	n, digestion starts	s in the		
A. oesophagus				
B. crop				
C. gizzard				
D. midgut				
The correct answer is option [[D]			
27. The splitting of the pericar	p to liberate see	ds is a character	istic of	
A. dry indehiscent fruits	5			

b. dry defliscent fruits				
C. succulent fruits				
D. none of the above				
The correct answer is or	otion [B].			
28. When is the best tim	e to test for the p	oresence of sta	rch in a leaf?	
A. Before sunrise				
B. At sunrise				
C. At midday				
D. immediately after sur	nset			
The correct answer is or	otion [D]			
Since photosynthesis ut easily be detected after			ence of starch wo	ould most
29. The develops f	rom the embryo	and makes cont	act with the uteri	ne wall.
A. umbilical cord				
B. placenta				
C. allantois				
D. amnion				
The correct answer is or	otion [A]			
The umbilical cord supp	lies nourishment	to the embryo	and removes its v	vastes.
ÇÊTÎ				
30. What is the effect of	: suboptimal temp	perature on the	rate of germinati	on?
A. Increase				
B. No effect				
C. Retardation				
D. None of the above				
The correct answer is or	otion [C].			

31. Which of the following	g describes an e	example of fer	tilization in high	ner organisms?
A. Fusion of sperm and	egg nuclei.			
B. Ejaculating of sperm i	nto a female bo	dy.		
C. Male gametes germin	ating in the poll	en tube.		
D. A pollen grain landing	on a stricky stię	gma.		
The correct answer is op	tion [A]			
32. Silk cotton tree is pol	llinated by			
A. wind				
B. water				
C. birds				
D. bats				
The correct answer is op	tion [D].			
33. All of the following ar	e agents of polli	ination except		
A. wind				
B. sunlight				
C. animals				
D. water				
The correct answer is op	tion [B].			
34. The jointed structure smell and vibration is the		pears organs v	which are sensi	itive to touch,
A. maxilla				
B. labium				
C. antenna				
D. abdomen				

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The correct answer is option [C]	
35. Coconut seeds and water lilies ar	re examples of seeds dispersed by
A. wind	
B. water	
C. man	
D. bird	
The correct answer is option [B].	
36. Which of the following is not an a	daptation of wind-dispersed fruits and seeds?
A. Small and light body	
B. Spongy coats	
C. Turfs of hairs	
D. Wings on pericarp	
The correct answer is option [B]	
37. In plants, is a structure whic	h develops from the ovule after fertilization.
A. embryo	
B. seed	
C. cotyledon	
D. plumule	
The correct answer is option [B].	
38. In mammalian males, the excretor	y and reproductive systems share the
A. ureter	
B. vas deferens	
C. urethra	
D. testes	

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39. One of the disadva	antages of cross	pollination is th	at	
A. it leads to less prod	duction of seeds			
B. it produces unheal	thy seeds and fru	uits		
C. pollen grains are lik	kely to be wasted	d during the pro	cess	
D. the seeds produce	ed gradually deve	lops into weake	r plants	
The correct answer is	option [C].			
40. An example of car	yopsis is			
A. guava				
B. maize grain				
C. coconut				
D. tomato				
The correct answer is	option [B]			
A dry, one-seeded, inc	dehiscent fruit wi	th the seed coa	t fused to the po	ericarp.
41. A is a dry indepappus.	ehiscent fruit cor	ntaining one see	d and possessir	ng a hairy
A. nut				
B. drupe				
C. cypsela				
D. follicle				
The correct answer is	option [C]			

The urethra is the common urinogenital duct that conducts both sperms and urine to

The correct answer is option [C]

the outside.

42. An achene wit	th pericarp fused wit	h the testa is called	·	
A. nut				
B. cypsela				
C. samara				
D. caryopsis				
The correct answer	er is option [D].			
43. Self-pollinated	d flowers are			
A. bisexual				
B. unisexual				
C. dioecious				
D. none of the ab	oove			
The correct answer	er is option [A].			
43. Fruits are clas	ssified into			
A. simple, multiple	e and aggregate			
B. simple, multiply	y and aggregate			
C. multiply and ag	ggregate			
D. simplify and m	ultiply			
The correct answer	er is option [A].			
44. The is lo	cated in the mamma of the stomach.	lian abdominal cavit	y just below the dia	ıphragm
A. bladder				
B. intestine				
C. liver	X.			
D. pancreas				
The correct answer	er is option [C]			

45. A flowering plant having both t said to be	the male and female flowers on	the same plant is
A. regular		
B. monoecious		
C. irregular		
D. dioecious		
The correct answer is option [B]		
46. Which of the following is not a	characteristic of wind disperse	d fruits and seeds?
A. Light weight		
B. Wing		
C. Floss		
D. Sticky juice		
The correct answer is option [D]		
*05t5		
47. Which one of the following has	s epigeal germination?	
A. Maize grain		
B. Cowpea seed		
C. African yam bean seed		
D. All of the above		
The correct answer is option [B].		
ר ⁵⁰⁰		
48. In plant breeding, artificial poll	ination can result in	
A. production of healthy crops		
B. improvement of crop variety		
C. susceptibility of crops to disea	ases	
D. delayed crop maturity		
The correct answer is option [R]		

germination.	yledons are carried above the sol	i is known as
A. epigeal		
B. hypogeal		
C. embryo		
D. none of the above		
The correct answer is option [A].		
50. The process by which the embryoninto a seedling is known as	o of a seed grows out of its testa	and develops
A. fertilisation		
B. planting		
C. germination		
D. fusion		
The correct answer is option [C].		
51. The process by which insects uncappearance during development is k		m and
A. ecdysis		
B. metamorphosis		
C. aestivation		
D. migration		
The correct answer is option [B]		

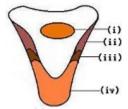
TOPIC: SENSE ORGANS

DIRECTION: Choose the correct answer from the lettered options.

1. The taste of delicious food is detected by the	_ of the tongue.	
A. mechanoreceptors		
B. photoreceptors		
C. chemoreceptors		
D. thermoreceptors		
The correct answer is option [C]		
2. The eyeball is a filled hollow structure.		
A. water		
B. fluid		
C. blood		
D. air		
The correct Answer is option [B].		
3. If you press a ruler against your skin, you feel press	ure and the sense	e of
A. pain		
B. touch		
C. heat D. stings		
The correct answer is option [B].		

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4. From the diagram, what taste does the part labelled (ii) perceive?



- A. Sweet
- B. Sour
- C. Bitter
- D. Salt

The correct answer is option [B].

- 5. The outer ear consists of the _____, ___ and ____
- A. pinna, auditory meatus, tympanic membrane
- B. ear lobe, ear wax, ear liquid
- C. pinna, ear tube, wax
- D. organ of hearing, talking, thinking

The correct Answer is option [A].

- 6. The temperature receptors in the skin are of _____ types.
- A. 2
- B. 4
- C. 3
- D. 5

The correct answer is option [A].

They are cold and warm.

7. The function of the ear as a ser	nse organ is hearing and	·
A. loudness		
B. listening		
C. balance		
D. feeling		
The correct answer is option [C].		
8. Which one of the following is no	ot a part of the mammalian	ear?
A. External ear		
B. Labyrinth		
C. Meatus		
D. Tympanum		
The correct answer is option [C].		
elight.		
9. The inability of some individuals example of	s to perceive the smell of so	ome substances is an
A. physiological adaptation		
B. physiological variation		
C. morphological variation		
D. morphological adaptation		
The correct answer is option [B]		
10. The eye defect caused by une known as	even curvature of the corne	a or lens or both is
A. myopia		
B. presbyopia		
C. astigmatism		
D. hypermetropia		

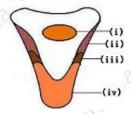
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The correct answer is option [C].

- 11. Which one of the following does not cause deafness?
- A. Wax
- B. Syphilis
- C. Head injuries
- D. Vaccinations

The correct answer is option [D].

12. The diagram shown is that of the ____.



- A. teeth
- B. tongue
- C. ear
- D. nose

The correct answer is option [B].

- 13. Which of the following best explains why it is difficult to see clearly in dim light?
- A. Initially the eye cannot operate when the light is dim.
- B. The choroid reflects all the light that enters the eye.
- C. Too little light reaches the retina and so the cones may not be stimulated enough.
- D. Dim light causes the pupil to close up so that not much light enters the eye.

The correct answer is option [C]

14. The outward bending of parallel light rays from distant objects before falling on the eyeball is called _____.

A. converging	
B. blurring	
C. diverging	
D. all of the above	
The correct answer is option [C].	
15. Which one of the following is not	a sense receptor?
A. Touch receptor	
B. Pain receptor	
C. Heat receptor	
D. Hugs receptor	
The correct answer is option [D].	
16. From the diagram, what taste doe	s the part labelled (i) perceive?
A. Sweet	
B. Sour	
C. Bitter	
D. Salt	
The correct answer is option [C].	
17. The nose senses smell by means	of
A. olfactory chemoreceptors	
B. nociceptors	
C. photoreceptors	
D. thermoreceptors	

The correct Answer is option [A].

18. Receptors that resp	oond to pressure are located	
A. deep in the skin		
B. on the skin surface		
C. just immediately after	er the top layer of the skin	
D. above the head		
The correct answer is o	option [A].	
	endings of the nasal chamber join toge olfactory lobe of the	ether to form olfactory
A. brain		
B. nose		
C. eye		
D. ear		
The correct answer is o	option [A].	
20 separates	the middle ear from the outer ear.	
A. Fenestra ovalis		
B. Eustachian		
C. Eardrum		
D. Stapes		
The correct answer is o	option [C].	
21. Hypermetropia is an	n eye defect also known as	
A. short-sightedness		
B. long-sightedness		
C. myopia		
D. presbyopia		
The correct answer is o	ontion [R]	

2. Inside the membranous labyrinth is a fluid called	
A. endolyte	
3. endolymph	
C. perilymph	
D. perilyte	
he correct answer is option [B].	
3. Which one of the following is not a sense organ?	
A. Skin	
3. Nose	
C. Brain	
D. Tongue	
he correct answer is option [C].	
Sterile Court	
4. If you prick your skin with a needle, what sensation will you feel?	
A. Pressure sensation	
3. Touch sensation	
C. Pain sensation	
D. Heat sensation	
he correct answer is option [C].	
5. One function of the iris of the mammalian eye is	
A. closing and opening of the eyes	
3. absorbing dangerous rays from sunlight	
C. regulating the amount of light entering the eye	
D. bringing light rays to focus on the retina	

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The correct answer is option [C]

26. The sclera or sclerotic layer is	s also called the of the eyes.
A. white	
B. grey	
C. brown	
D. blue	
The correct Answer is option [A].	
27. The retina of the eye is a	that receives electromagnetic stimuli.
A. thermoreceptors	
B. mechanoreceptor	
C. chemoreceptor	
D. photoreceptor	
The correct Answer is option [D].	
at Silver	
28. Long-sightedness can be con	rrected by using a lens.
A. convex	
B. concave	
C. glasses with uneven curvature	
D. any of the above	
The correct answer is option [A].	
29. The part of the ear known as	tympanum is also called the ear.
A. middle	
B. outer	
C. inner	
D. none of the above	
The correct answer is option [A].	

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30	_ stimulates ne	erve endings	in the tongue.	
A. Food su	ubstances			
B. Water				
C. Chemic	cal substances			
D. Juicy su	ubstances			
The correc	ct answer is op	tion [C].		
31. The out	ter ear is made	up of the pir	nna and the	·
A. auditor	y nerve			
B. auditor	y canal			
C. muscle	S			

Look at the diagram carefully and answer the question.

32. What part of the body is this?

The correct answer is option [B].



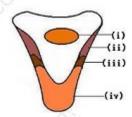
A. The eye

D. malleus

- B. The nose
- C. The ear
- D. The fingers

The correct Answer is option [C].

33. From the diagram, what taste does the part labelled (iv) perceive?



- A. Sweet
- B. Sour
- C. Bitter
- D. Salt

The correct answer is option [A].

34. Which one of the following receptors do we have in the skin?

I Heat receptor

Il Cold receptor

III Warm receptors as temperature receptors

- A. I and III only
- B. II and III only
- C. I, II and III
- D. I and II only

The correct answer is option [D].

35. Chemicals are stimuli of the nose and the _____.

- A. ear
- B. tongue
- C. eye
- D. skin

The correct answer is option [B].

36. Man has both day and night vision the eye.	is because they h	ave both roo	ds and	_ iı
A. optic nerves				
B. blind spot				
C. lens				
D. cones				
The correct answer is option [D].				
37. The main sensory receptors of the	body include		and)
A. tasting receptors, sighting recepto	rs, touching recep	otors, hearin	g receptors,	500
B. mechanoreceptors, chemorecepto	rs, photoreceptoi	s, thermore	ceptors	
C. eye, nose, skin, ear				
D. None of the above				
The correct answer is option [B]				
38. From the diagram, what taste does	s the part labelled	(iii) perceiv	e?	
(i) (ii)				

A. Sweet

B. Sour

C. Bitter

D. Salt

The correct answer is option [D].

39. Thermoreceptors are found in the _____.

A. tongue

B. ear				
C. skin				
D. nose				
The correct Ans	wer is option [C].			
40. In the skin, t	here are sens	e receptors.		
A. 3				
B. 4				
C. 6				
D. 5				
The correct ans	wer is option [D].			
The five sense receptors.	eceptors in the skir	n are pain, heat, c	old, touch, and	pressure
41. Pepper irritation	tes the whole tongu	ue and causes a b	ourning sensation	on because it
A. taste				
B. flavour				
C. chemicals				
D. none of the a	above			
The correct ans	wer is option [C]			
42. The mammal	lian ear consists of	parts.		
A. 2				
B. 3				
C. 4	Xe.			
D. 6				
The correct ans	wer is option [B].			

43. The stimulus of the sense orga	an "eye" is
A. shadow	
B. darkness	
C. light	
D. brightness	
The correct answer is option [C].	
44. The layer of light-sensitive cel	lls in the human eye is called the
A. cornea	
B. sclerotic layer	
C. retina	
D. conjunctiva	
The correct answer is option [C]	
45. Ear stones are known as	- Salle
A. otoliths	
B. corti	
C. sacculus	
D. coiled cochlea	
The correct answer is option [A].	
46. For clear vision, the vitamins t	hat could be taken is
A. vitamin C	
B. vitamin D	
C. vitamin E	
D. vitamin A	
The correct answer is option [D].	

47. Taste bud opens to the surface of the	he tongue by	
A. air		
B. saliva		
C. pores		
D. inlets		
The correct answer is option [C].		
48. A taste bud has a shape.		
A. curve		
B. round		
C. oval		
D. flask		
The correct answer is option [D].		
ALSTICO .		
49. Rods are sensitive to dim light and		
A. bright coloured vision		
B. dark coloured vision		
C. colourless vision		
D. colourful vision		
The correct answer is option [C].		
50. Which of the following taste receptor	ors is not correctly matched	d with the taste it
perceives?		
A. Tip-sweet		
B. Back-bitter		
C. Back-sour		
D. Side-sour		
The correct answer is option [C]		

51. The three bon	nes of the middle ea	r are called ear	·	
A. bones				
B. windows				
C. skeleton				
D. ossicles				
The correct answ	ver is option [D].			
52. Within the car	vity of the middle ea	ar is a chain of three	e tiny bones calle	∍d,
A. malleus, incus	, stapes			
B. pharynx, hamn	ner, anvilis			
C. incus, stirrups	s, hammering			
D. stapes, stirring	g, anvil			
The correct answ	er is option [A]			
53. In the eye, the	e cornea is a contin	uation of the		
A. blind spot				
B. conjunctiva				
C. sclera				
D. retina				
The correct Answ	ver is option [C].			
54. The amount of	of light rays entering	g the eye is regulate	ed by the	50-
A. lens				
B. retina				
C. pupil				
D iris				

55. Human beings have major sense organs
A. 4
B. 6
C. 5
D. 3
The correct answer is option [C].
They include the: ear, eye, nose, skin and tongue

The correct answer is option [C].

TOPIC: VARIATION IN POPULATION

DIRECTION: Choose the correct answer from the lettered options.

1. Termites are called social insects because	
A. the nests are built by the nasute soldiers	
B. they live together in communities	
C. the queen allocates duties to the workers	
D. the king and queen mate	
The correct answer is option [B]	
2. Blood groups and tongue rolling are examples of	
A. continuous variation	
B. discontinuous variation	
C. variation due to environment	
D. adaptive variation	
The correct answer is option [B]	
In discontinuous variation, there are sharp differences between the vari given feature.	ous forms of a
3. Which of the following is an example of continuous variation?	
A. Human blood groups	
B. Sex differences in humans	
C. Haemoglobin types	
D. Height in humans	
The correct answer is option [D]	

Height in humans is a continuous variation because height is expressed as a

graduation from short to tall.

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4. The major types of man's fing	erprints do not include
A. arch	
B. whorl	
C. simple	
D. loop	
The correct answer is option [C	
5. An example of morphological	variation is
A. blood group	
B. height	
C. ability to roll the tongue	
D. behavioural pattern	
The correct answer is option [B]].
alighte.	
6. Which of the following human	characteristics are discontinuous variations?
I. Complexion	
II. Height	
III. Blood Rhesus factor	
IV. Ability to roll the tongue	
A. I & III	
B. II & III	
C. II & IV	
D. III & IV	
The correct answer is option [D	
Discontinuous variations show r between the various forms of a	no intermediate forms. There are sharp differences given feature.

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7. One application of variation is in		
A. determining the size and weight of individ	luals	
B. determining paternity		
C. conservation of wildlife		
D. controlling of disease vectors		
The correct answer is option [B]		
Variation caused by inherited characters suc ability to roll tongue or to taste PTC, can be	. ,	
8. Which of the following scientists discovered	ed the Rhesus factor in hur	nan blood?
A. Hooke and Lavine		
B. Darwin and Landsteiner		
C. Landsteiner and Wiener		
D. Hooke and Darwin		
The correct answer is option [C]		
9. People without antigens on their red blood	d cells belong to blood gro	oup
A. A		
B. AS		
C. BB		
D. O		
The correct answer is option [D].		

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10. Which set of characters can be	e expressed phenotypically?
I. Complexion	
II. Height	
III. Blood Rhesus factor	
IV. Colour blindness	
A. I & II	
B. I, II & IV	
C. I, III & IV	
D. I, II & III	
The correct answer is option [B]	
Phenotypically expressed charact	ers are physically observable.
11 is an application of phys	siological variation.
A. Finger print pattern	
B. Hair colour	
C. Height measurement	
D. Detection of paternity	
The correct answer is option [D].	
12. Which of the following variation	ns is applicable to a weight lifter?
A. Absolute variation	
B. Discontinuous variation	
C. Hereditary variation	
D. Acquired variation	
The correct answer is option [D]	

Acquired variation results from environmental factors, thus the characteristics are not passed on to offspring. For example, the children of a weight lifter would not be muscular except they train to build muscles.

13. Which of the following is not a finger print class	ssification?
A. Arch	
B. Loop	
C. Whorl	
D. Tented arc	
The correct answer is option [D].	
14. In sex determination, the XY chromosome con	nes from the
A. female	
B. male	
C. both parents	
D. male child	
The correct answer is option [B].	
15. Morphological variation can clearly be seen in	ı
A. weight	
B. skin colour in man	
C. height	
D. all of the above	
The correct answer is option [D].	

16. Which of these structural features is adapted for only water conservation?
A. Succulent stems
B. Scales in animals
C. Spines in plants
D. Feathers in birds
The correct answer is option [A]
17. What are the applications of variations?
A. Blood transfusion
B. Crime detection
C. Determination of paternity
D. All of the above
The correct Answer is option [D].
18. When oil is poured into the breeding site of mosquitoes, it
A. deprives the larvae of water
B. kills the adults
C. suffocates the pupae
D. slows down egg development
The correct answer is option [C]
Pouring oil into the breeding site (standing water) causes the surface of the water to be covered by an oil film. This prevents oxygen supply, thereby causing the pupae to
suffocate.

19. Variation may be grouped into	types.	
A. 2		
B. 4		
C. 5		
D. 11		
The correct Answer is option [A].		
20. Which of the following is not a	a continuous variation?	
A. Heights of plants		
B. Weight		
C. Ability to roll tongue		
D. Foot length		
The correct answer is option [C]		
In continuous variation, features va	ary gradually from one extreme	form to the other.
21. Which of the following is not a	continuous variation?	
A. Colour of skin		
B. Size of the individual		
C. Ability to roll the tongue		
D. Height of the person		
The correct answer is option [C].		
22. The two types of variations are	e and variation.	
A. chemical, physiological		
B. morphological, physiological		
C. morphological, physical		
D. anatomical, biological		
The correct Answer is ention [R]		

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23. Group instinct or social behaviour is	not displayed in
A. soldier ants	
B. bees	
C. chickens	
D. weaver birds	
The correct answer is option [C]	
24. A food chain always begins with a	
A. decomposer	
B. saprophyte	
C. carnivores	
D. producer	
The correct answer is option [D]	
25. A feature of the caste system of bee	s and termites is that
A. the workers also perform reproductiv	e functions
B. the drones are always bigger than the	e queen
C. the workers perform housekeeping d	uties
D. the queen dies immediately after the	first sting
The correct answer is option [C]	
26. A permanent change in gene is calle	d arrive
A. mutation	
B. gene drift	
C. X-factor	
D. mutant X	
The correct Answer is option [A].	

27. Two factors th	nat can cause variatio	on are		
A. heredity factor	rs and anti-heredity	factors		
B. genetic differe	ences and influence	from the environm	ient	
C. blood group d	differences and polyr	morphic changes		
D. inter-ethnic di	ifferences and variou	ıs individual exper	iences	
The correct Answ	ver is option [B].			
28. An Amoeba a	nd an unlaid chicken	egg are		
A. animal tissues				
B. organelles				
C. single cells				
D. organisms				
The correct answ	er is option [C]			
29. The division o	of labour in social ins	ects is an example	e of	
A. structural ada	ptation			
B. physiological a	adaptation			
C. commensalism	n			
D. behavioural ac	daptation			
The correct answ	er is option [D]			
30. Variation betw	ween individuals are	of kinds.		
A. 3				
B. 2	XC ST			
C. 4				
D. 5				
The correct answ	er is option [B].			

31. Two pairs of genes, ABAB for the black r crossed will give a hybrid of	ace and abab for the white race when
A. ABab	
B. AaBb	
C. BbAa	
D. AbaB	
The correct answer is option [A].	
32. What is the significance of the bee dand	ce to other bees?
A. Warning signal	
B. Presence of food	
C. Mating signal by the male	
D. Scaring the enemies away	
The correct answer is option [B]	
33. The boomerang shaped beaks of flamin	goes have slits adapted for
A. scooping mud and sieving it	
B. picking seeds and worms	
C. grasping slippery water animals	
D. sucking nectar from flowers	
The correct answer is option [A]	
34. A person's finger print when taken by th	e police is stored in a
A. finger bank	
B. storage bank	
C. prints bank	
D memory bank	

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The correct answer is option [D].

35. Which one of the following features is used in crime detection?
A. Blood group
B. Skin colour
C. Finger print
D. Genotype
The correct answer is option [C].
36. Which one of the following is not a type of blood group?
A. A
B. B
C. C
D. O
The correct answer is option [C].
37. If a cross is made between a pure-breeding red flowered plant and a pure-
breeding white flowered plant where R is dominant for red flower and r is recessive for white, the most likely result of F1 generation will be?
A. 75% red flowers and 25% white flowers
B. All red flowers
C. 75% white flowers and 25% red flowers
D. 50% red flowers and 50% white flowers
The correct answer is option [B]
The zygotes produced would contain one allele for red flower colour (R) and one for white flower (r). Since R is dominant and r is reccessive, the F1 generation would only have red flowers.

lity to taste ph $_{-}$ variation.	enylthiocar	bamide as bi	tter or tastele	ess is an
er is option [D]	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			
orint is a	trait.			
ove				
er is option [A]				
e is not a here	ditary variat	tion?		
and nose				
er is option [A]				
how variations	s are often a	a blend of inh	nerited and a	cquired
	er is option [D] orint is a ove er is option [A] e is not a here and nose er is option [A]	er is option [D]. orint is a trait. ove er is option [A]. e is not a hereditary variate and nose er is option [A]	er is option [D]. Porint is a trait. Ove Per is option [A]. Per is not a hereditary variation? and nose Per is option [A]	er is option [D]. porint is a trait. ove er is option [A]. e is not a hereditary variation?

The correct answer is o	ption [A].		
42. Variations cannot be	e applied to		
A. crime detection			
B. blood group			
C. identity marks betwe	een organisms		
D. diseases of organism	ns		
The correct answer is o	ption [D].		
43. Which of the following	ng options make ι	up the bee caste?	
A. Soldiers and queen			
B. Drones, soldiers and	l workers		
C. Queen, soldiers and	workers		
D. Drones, queen and v	workers		
The correct answer is o	ption [D]		
44. A variation where th given feature is called _	ere are sharp diffe 	erences between the	various forms of a
A. continuous variation	I		
B. discontinuous variati	ion		
C. stable variation			
D. unstable variation			
The correct Answer is o	ption [B].		
45. During blood transfublood group O is given	= =		I if a patient having
A. AB			

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B. A				
C. O				
D. B				
The correct	answer is option [C]			
	ıs that determines the p ıriation.	ohysical appearance c	of a person is kn	own as
A. physiolog	gical			
B. discontin	uous			
C. morpholo	ogical			
D. none of t	he above			
The correct	answer is option [C].			
47. Which or	ne of the following bloc	d groups is a general	donor?	
A. B				
B. O				
C. AB				
D. B+				
The correct	answer is option [B].			
48. Which of	the following is an exa	mple of discontinuous	s variation?	
A. The heigh	nt of a pear plant			
B. Sex of an	offspring			
C. The color	ur of a pear plant			
D. The adult	t body weight			
The correct	answer is option [B]			
	n offspring is either ma us variation. However, t Inother.			

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49. Antigen A in the red blood cell has	antibody in plasma.	
A. B		
B. A		
C. A + B		
D. O		
The correct answer is option [A].		
50. The type of variation in which a given two extreme forms is called varia		on between
A. discontinuous		
B. formal		
C. continuous		
D. different		
The correct answer is option [C]		
51. An individual with blood group AB can	receive blood from those in bl	ood group(s)
A. AB only		
B. A and B only		
C. B only		
D. A, B, AB and O		
The correct answer is option [D]		
52. Agglutination occurs in blood transfus	ion when the	
A. antigen and antibody from the donor a	nd recipient reacts	
B. same antibodies from donor and recipi	ient fuse together to form a lur	mp
C. donor and recipient belong to differen	t races	

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D. recipient is not a universal recipient but a universal donor	
The correct answer is option [A]	
53. What is variation in population?	
A. Individual differences within a species.	
B. Heridity within a lineage.	
C. Various growth levels.	
D. Inheritance of special characteristics.	
The correct Answer is option [A].	
54. Even though some flowering plants contain accessory pigments, which colours, they still contain the pigment	give them
A. melanin	
B. chlorophyll	
C. xanthophyll	
D. carotene	
The correct answer is option [B]	

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