Question Booklet Series: A

Question Booklet Serial No. 141101

CET (UG) - 2018

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.	(In Figure)	(In Words)	
O.M.R. Ans	wer Sheet Serial No.		
Signature of Candidate:		Signature of Invigilator:	

Subject: Biology

Time: 70 Minutes

Number of Questions: 60

Maximum Marks: 120

DO NOT OPEN THE SEAL ON THE BOOKLET UNTIL ASKED TO DO SO.

INSTRUCTIONS:

- Write your Roll No. on the Questions Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
- Enter the Question Booklet Serial No. on the OMR Answer Sheet. Darken the corresponding bubbles with Black Bull Point/Black Gel Pen.
- 3. Do not make any identification mark on the Answer Sheet or Question Booklet.
- Please check that this Question Booklet contains 60 Questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of Test.
- Each question has four alternative answer (A,B,C,D) of which only one is correct. For each question, darken only
 one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with Black Ball
 Point/Black Gel Pen.
- If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Booklet. No marks will be deducted in such cases.
- Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the question given in the Question Booklet.
- Negative marking will be adopted for evaluation i.e. 1/4th of the marks of the question will be deducted for each wrong answer. A wrong answer means incorrect answer or wrong filling of bubble.
- For calculations, use of simple log tables is permitted. Borrowing of log tables and any other material is not allowed.
- 10. For rough work only the blank sheet at the end of the Question Booklet be used.
- 11. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.
- 12. After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on duty.
- 13. In no case the Answer Sheet, the Question Booklet, or its part or any material copied/noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from the examination.
- 14. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistant or found giving or receiving assistant or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
- 15. Tele-communication equipment such as Cellular phones, pager, wireless, scanner, camera or any electronic/digital gadget etc., is not permitted inside the examination hall. Use of calculators is not allowed.
- 16. The candidates will not be allowed to leave the Examination Hall/Room before the expiry of the allotted time.

1.	Carageenans and alginates are obtained respectively from					
	A) Brown algae, Red algae C) Green algae, Brown algae		B) Red algae, Green algae D) Red algae, Brown algae			
2.	Heterospory is no	Heterospory is not found in				
	A) Lycopodium	B) Marsilea	C) Azolla	D) Selaginella		
3.	If 2n=8, what will be the number of chromatids in each daughter cell after meiosis I?					
	A) 2	B) 4	C) 8	D) 16		
4.	Which mineral ion plays important role in functioning of photosystem II?					
	A) Manganese	B) Magnesium	C) Iron	D) Molybdenum		
5.	Primary acceptor	Primary acceptor of carbondioxide in photosynthesis is				
	A) Ribose C) Ribulose 1, 5-bisphosphate		B) Ribulose-5-phosphate D) 3-Phosphoglycerate			
6.	Inulin is a polyme	r of				
	A) Fructose	B) Glucosamine	C) Galactose	D) Galactosamine		
7.	If a mutation in D would be a	NA leads to change	in codon UUU to U	UC in a mRNA, the mutation		
	A) Mis-sense mutation C) Non-sense mutation		B) Silent mutation D) Frame-shift mutation			
8.	A farmer adds Azotobacter culture to the soil before sowing maize; it results in increase in the yield. The possible reason for this increase is that Azotobacter					
	A) Increases the nutrients in soil by decomposing dead organic matter B) Increases the fertility of the soil by fixing atmospheric nitrogen C) Enters into the roots of maize and fixes atmospheric nitrogen for the plant D) Produces certain chemicals in the soil, which kills the weeds present in the field					
9.	Which one is the correct match of Column - I and Column - II?					
	Column - I		Column - II			
	a) Polysomes b) Tubulin c) Nucleoid d) Golgi bodies e) Chromatin		i) Bacteria ii) Glycoprotein iii) Walther Flen iv) Protein syntl v) Centriole	nming		
	A) a-iii, b-v, c-ii, d	-i, e-iii	B) a-v, b-i, c-iv, d-iii, e-ii			
	C) a-ii, b-iv, c-i, d-	v, e-iv	D) a-iv, b-v, c-i,	D) a-iv, b-v, c-i, d-ii, e-iii		

	10. Which one of the	following is correct fo	or sucrose disacchar	ide?			
	A) Glucose α 1-4 f	A) Glucose α 1-4 fructose		B) Glucose α 1-2 fructose			
	C) Fructose a 1-4	glucose	D) Fructose α 1-2	glucose			
	11. In citric acid cyc requires the addit		verted to malate by	fumarase and this reacti			
	A) Carbondioxide	B) Water	C) FAD	D) Coenzyme A			
	12. Which statement	is incorrect?					
	B) Inheritance of 1 C) Law of segregar	A) The gene which controls more than one phenotypic character is pleiotropic gene B) Inheritance of blood groups in humans is polygenic C) Law of segregation has no exception D) Test cross is a cross of F1 hybrid with recessive parent					
		emophilia female is born to this couple w		ohilia male, the percentage			
	A) Zero	B) 25	C) 50	D) 100			
	14. Which of the follo	wing is a wrong state	ement?				
	B) Pili are elongat C) Mesosomes are respiration D) Flagella are file	ed tubular structures of e extensions of plas amentous extensions f	of bacterial surface hel mamembrane into the from bacterial surgace	and help in motility			
	15. The nitrogen base A) Ethanolamine	B) Sphingosine		D) Cephalin			
	16. The sweetened nu	trient medium forme	ed prior to alcoholic	fermentation is called			
	A) Mash	B) Wash	C) Malt	D) Wort			
	17. In flowering plan with egg and the		on occurs during w	hich one male gamete fus			
A) Primary endosperm cell C) Secondary nucleus			B) Synergid cell D) Antipodal cell				
	18. In monocot embry	8. In monocot embryo structure, rudiment of second cotyledon is represented by					
	A) Epiblast	B) Epicotyl	C) Hypocotyl	D) Coleoptile			
	19. Tension in water stem, it means	 Tension in water column in the xylem is responsible for water transport upward in t stem, it means 					
A) Positive pressure potential C) Positive solute pressure			B) Negative pressure potential D) Water potential is Zero				

20.	Which plant growt maturity?	th regulator preven	at fruit drop at earl	ly stages but promote it at		
	A) Auxins	B) Gibberellins	C) Cytokinins	D) Abscisic acid		
21.	When margins of direction, the aestiv	er but not in a particular				
	A) Twisted	B) Valvate	C) Vaxillary	D) Imbricate		
22.	Phloem in Gymnosp	oerms lack				
	A) Companion cells C) Phloem fibres		B) Phloem parenchyma D) Sieve cells			
23.	Barks refers to seco	ndary phloem and				
	A) Phellogen	B) Phellem	C) Phelloderm	D) Periderm		
24.	Which combination	of root system and	leaf venation is prese	ent in monocot plants?		
	ticulate venation nd reticulate venation					
25. In which of the following, male and female gametophytes remain within sporpresent on the sporophyte?						
	A) Bryophytes C) Gymnosperms		B) Pteridophytes and Gymnosperms D) Bryophytes and Pteridophytes			
26.	A museum has colle	ction of				
	A) Living plants for a B) Dried plant special C) Plants in jars cont D) Plant and animal seconds.	nens preserved on sh aining distilled water		ative		
27.	Which of the follow	ing is incorrect rega	arding lichens?			
A) Show mutulism between algae and fungi B) Very good indicators of pollution C) Known as imperfect fungi D) Have no place in five kingdom classification						
28.	Which one is the compelling feature to keep prokaryotic algae with plants?					
	A) Absence of nuclei C) Presence of cell w		B) Presence of chlo D) Absence of con	CONTRACTOR OF THE PROPERTY OF		
29.	Improved wheat var	riety having genes f	or dwarfness and hig	h protein content is		
	A) Sharbati Sonora	B) Kalayan	C) Sonalika	D) Lerma Rojo		

	30. Premature leaf fal	l is caused due to the d	eficiency of				
	A) Potassium	B) Calcium	C) Phosphorus	D) Nitrogen			
	31. Water cannot leav	e which of the followin	g part of the loop o	f the Henle:			
A) Proximal convoluted tubule C) Ascending limb			B) Distal convolut D) Descending lim				
	32. The amount of blo	od left in the ventricle	after ventricular co	ontraction is:			
	A) 60 ml	B) 70 ml	C) 130 ml	D) 100ml			
	33. The partial pressu	re of carbon dioxide in	the alveolus is app	proximately:			
	A) 159 mm of Hg	B) 0.3 mm of Hg	C) 40 mm of Hg	D) 100 mm of Hg			
	34. Which of the follo	wing is not a peptide h	ormone:				
	A) Corticotropin R C) Dopamine	eleasing Hormone	B) Thyrotrophin Releasing Hormone D) Luteinizing Hormone Releasing Hormone				
	35. Salivary glands in	35. Salivary glands in frog are:					
	A) Numerous	B) Single	C) Two	D) Absent			
	36. Phallic glands in c	36. Phallic glands in cockroach:					
	A) Secrete ootheca C) Store excretory products		B) Secrete outer covering of spermatophore D) Secrete ecdysone				
	77. Which of the following is a Pseudocoelomate?						
	A) Aschelminthes	B) Platyhelminthes	C) Annelids	D) Echinoderms			
	38. Which of the follo	88. Which of the following is an example of soft coral is:					
	A) Aurelia	B) Adamsia	C) Gorgonia	D) Alcyonium			
	39. Which one is the largest part of the digestive system both in Herdmania and Branchiostoma:						
	A) Oesophagus	B) Pharynx	C) Intestine	D) Stomach			
	0. Which one of the following is commonly called as "feather back":						
	A) Anabas anabas C) Notopterus noto			B) Channa punctatua D) Exocoetus			
	41. Silencing of mRN	41. Silencing of mRNA has been used to produce plants resistant to					
	A) Bollworms	B) Nematodes	C) Beetles	D) White flies			

42. The first clinical trial curing the deficiency of		at NIH was given to a 4-year-old girl for lowing enzymes:		
A) Beta-galactosidase C) Adenosine deaminase	ATTER IS NOT IN	B) Thrombokinase D) Phenylalanine hydroxylase		
43. The order of different s	tages of PCR is	s under:		
A) Denaturation, Anneal C) Extension, Denaturation	LUCAS CONTRACTOR OF THE PROPERTY OF THE PROPER	B) Annealing, Denaturation, Extension D) Denaturation and Annealing		
44. During agarose gel ele fastest to run towards th		hich of the following molecules will be the rode?		
A) Plasmid DNA C) Chromosomal/genomi	c DNA	B) RNA D) All will move at the same speed		
45. For blue-white screen		lones containing recombinant DNA, the		
A) β-galactosidase	B) IPTG	C) X-Gal D) lacZ		
46. Inhibin is an ovarian ho	ormone which			
A) Inhibits the secretion of LH C) Inhibits the secretion of progesterone		B) Inhibits the secretion of prolactin D) Inhibits the secretion of FSH		
47. Eunuchs are tall becaus	e:			
C) Lack of testes stimula	androgen delays tes closure of epi	epiphyseal closure in long bones.		
48. The next ovulatory cycl	e after implanta	tion is postponed because of		
A) Production of hCG by B) Low levels of prolacti	CONTRACTOR OF COMMONWAY AND AND ADDRESS OF COMMON ADDRESS OF COMMON AND ADDRESS OF COMMON ADDRESS OF COMMO			

- C) Low levels of progesterone
- D) Production of prostaglandins by corpus luteum

49. Which of the following is not true about antibody structure?

- A) Antibodies have multiple identical antigen binding sites.
- B) Antibodies are built from equal numbers of large (heavy) and small (light) peptide chains.
- C) Antibodies are secreted and function away from the cell. They are not attached to the cell membrane.
- D) The class of the antibody molecule is determined solely by its heavy chain.

	50. The alcohol intoxic on-going informat drinker processes	cated individual ha ion, and so alcohol fewer cues less well	acts to	narrow attenti	availabl on and	le to process all means that the		
	A) Alcohol myopia	B) Alcohol depen	dency	C) Alcohol a	ibuse	D) Alcohol am		
	51. The concept of Tel	eology was introdu	ced by					
	A) Aristotle	B) Thales		C) Francis B	acon	D) Epicurus		
	52. Dollo's law states t	hat						
	 B) Ontogeny recapi C) Evolution of ani 	s exhibit evolutional tulates phylogeny mals was a series of en in existence in the	attempts	by nature to pro	duce mo	re perfect forms		
	53. Basilosaurus is a n	nissing link between	ne of the					
	Amphibians and B) Fish and amphib C) Reptiles and bird D) Aquatic mamma	ia	al ancesto	ors				
	54. The concept of the	54. The concept of the biological species was given by						
	A) Mayr	B) Wiley	C) \	/alen	D) Lin	nnaeus		
	55. The Devonian peri A) France	iod is named after I B) Russia		place in ndia	D) En	gland		
	56. k-selected populat	ions exhibit						
	 A) Rapid population C) Produce more of 		B) Delayed reproductive maturity D) Little or no parental care					
	57. The magnificent H	langul or Kashmir	stag is th	e main mamm:	al in			
A) Dachigam National park C) Panna National Park			B) Corbett National park D) Rajaji National Park					
	58. Species richness is							
	B) The abundance of	ies occurring in an a of species occurring abundance of species non's index	in an area					
	59. The hypervolume	59. The hypervolume concept of niche was proposed by						
	A) Hutchinson	B) Turresson	C) !	Mace	D) Ta	nsley		
	60. The IUCN headqu	arters are in						
	A) France	B) Germany	C) I	England	D) Sw	vitzerland		

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