DAY THIRTY EIGHT

Mock Test 1

Based on Complete Syllabus

Instruction

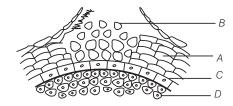
- This question paper contains of 100 Multiple Choice Questions of Biology (Botany & Zoology), divided into two Sections; section A and section B.
- Section-A contains 35 questions and all questions are compulsory.
- Section-B contains 15 questions out of which only 10 questions are to be attempted.
- Each question carries 4 marks.

Botany

Section-A

- 1 Bacteria that live around deep sea hot water vents obtain energy by oxidising inorganic hydrogen sulphide belched out by the vents. They use this energy to build organic molecules from carbon obtained by carbon dioxide in the seawater. These bacteria might be described as
 - (a) photoheterotrophs
- (b) chemoautotrophs
- (c) photoautotrophs
- (d) chemoheterotrophs
- **2** In a flower, the stamens are present in monoadelphous condition, which refers to
 - (a) filaments of all the stamens are united in one group, but anthers are free
 - (b) filaments and anthers both are fused
 - (c) anthers are fused but filaments are free
 - (d) None of the above
- 3 In certain fungi and algae, cells undergo mitosis repeatedly without subsequently undergoing cytokinesis. What would result from this?
 - (a) A decrease in chromosome number
 - (b) Inability to duplicate DNA
 - (c) Division of the organism into many cells, most lacking nuclei
 - (d) Large cells containing many nuclei

- 4 Devices for self-pollination are
 - (a) dicliny or unisexuality
- (b) dichogamy
- (c) heterostyly
- (d) None of these
- **5** Moss protonema can be differentiated from the filamentous alga by the presence of
 - (a) long rhizoids
 - (b) sporangium
 - (c) multiciliated and coiled antherozoids
 - (d) oblique septa
- **6** A plant undergoes flowering only when exposed to alternating exposure of 4 hours light and 2 hours of dark in a 24 hours cycle. Such a plant will be classified as a
 - (a) long day plant
- (b) short day plant
- (c) day neutral plant
- (d) short-long day plant
- **7** In the diagram of lenticel, identify the parts indicated as *A*, *B*, *C* and *D*.



	 (a) A – Phellem, B – Complementary cells, D – Phelloderm (b) A – Phellem, B – Complementary cells, D – Periderm 	· ·	(ree-central placentation is to a community (a) Dianthus (c) Brassica	found in (b) Argemone (d) Citrus			
	 (c) A – Complementary cells, B – Phelloger C – Phelloderm, D – Periderm (d) A – Complementary cells, B – Phellem, D – Phelloderm 		 18 The term 'polyadelphous' is related to (a) gynoecium (b) androecium (c) corolla (d) calyx 19 Conifers are adapted to tolerate extreme environn conditions because of (a) broad hardy leaves (b) superficial stomata (c) thick cuticle (d) the presence of vertical stomata 					
8	Which of the following processes is commodule and non-cyclic modes of photophoton (a) Release of O ₂	mon to both						
	 (b) CO₂-fixation (c) Formation of NADPH (d) Involvement of both PS-I and PS-II 		(he ovule of an angiosperm (a) megasporangium (b) megasporophyll	is technically equivalent to			
9	Why is vivipary an undesirable character plants?	for annual crop		(c) megaspore mother cell (d) megaspore				
	(a) It reduces the vigour of plant(b) The seeds cannot be stored under norrethe next season(c) The seeds exhibit long dormancy(d) It adversely affects the fertility of the plant	mal conditions for	C (Which one of the following goombinations leading to various) (a) Vegetative reproduction (c) Sexual reproduction	ation?			
10	The label of a herbarium sheet does not do			n majority of angiosperms				
	on (a) date of collection (b) name of (c) local names (d) height of		(a) egg has a filiform apparatus(b) there are numerous antipodal cells(c) reduction division occurs in the megaspore mother cells					
11	Radial symmetry is found in the flowers o		((d) a small central cell is pre	sent in the embryo sac			
12	 (a) Brassica (b) Trifolium (c) Pisum The balloon-shaped structures called tyle (a) originate in the lumen of vessels (b) characterise the sapwood (c) are extensions of xylem parenchyma of (d) are linked to the ascent of sap through 	ells into vessels	 23 A true breeding plant is (a) one that is able to breed on its own (b) produced due to cross-pollination among unrelated plants (c) near homozygous and produces offspring of its own kind (d) always homozygous recessive in its genetic constitut 					
13	The primary producers of the deep-sea havent ecosystem are (a) green algae (b) chemosy (c) blue-green algae (d) coral ree	nthetic bacteria	24 P	hytochrome is a	(b) glycoprotein(d) chromoprotein			
14	Cortex is the region found between	2		Collination in water hyacinth	and water lily is brought			
	(a) epidermis and stele(b) pericycle and endodermis(c) endodermis and pith		(bout by the agency of (a) water (c) birds	(b) insects or wind (d) bats			
	(d) endodermis and vascular bundle	2		Which is essential for the gro	•			
15	Methanogens belong to (a) eubacteria (b) archaeba		((a) Zn (c) Ca	(b) Fe (d) Mn			
16	(c) dinoflagellates (d) slime model. The process which makes major different between C_3 and C_4 plants is (a) glycolysis (b) Calvin cy (c) photorespiration (d) respiration	ce vcle	(Vhich of the following is cor(a) Aerenchyma(b) Age pyramid(c) Parthenium hysterophoru(d) Stratification	OpuntiaBiome			

29	Taylor conducted the experiments to prove semi- conservative mode of chromosome replication on (a) Vinca rosea (b) Vicia faba (c) Drosophila melanogaster (d) E. coli	 (c) Diatoms are chief producers in the oceans (d) Diatoms are microscopic and float passively in water 38 You are given a tissue with its potential for differentiation an artificial culture. Which of the following pairs of 					
30	Biochemical Oxygen Demand (BOD) may not be a good index for pollution in water bodies receiving effluents from (a) domestic sewage (b) dairy industry (c) petroleum industry (d) sugar industry	shoots as well as roots? (a) IAA and gibberellin (b) Auxin and cytokinin (c) Auxin and abscisic acid					
31	Red List contains data or information on (a) all economically important plants (b) plants whose products are in international trade (c) threatened species (d) marine vertebrates only	 (d) Gibberellin and abscisic acid 39 Study the four statements (I-IV) given below and select the two correct ones out of them: I. Definition of biological species was given by Ernst Mayr. II. Photoperiod does not affect reproduction in plants. 					
32	The highest DDT concentration in aquatic food chain shall occur in (a) phytoplankton (b) seagull (c) crab (d) eel	 III. Binomial nomenclature system was given by RH Whittaker. IV. In unicellular organisms, reproduction is synonymous with growth. The correct statements are (a) II and III (b) III and IV 					
33	A lake which is rich in organic waste may result in (a) increased population of aquatic organisms due to minerals (b) drying of the lake due to algal bloom (c) increased population of fish due to lots of nutrients (d) mortality of fish due to lack of oxygen	(c) I and IV (d) I and II 40 Which one of the following statement is incorrect? (a) Algae increase the level of dissolved oxygen in the immediate environment (b) Algin is obtained from red algae and carrageenan from brown algae					
34	A dioecious flowering plant prevents both (a) autogamy and xenogamy (b) autogamy and geitonogamy (c) geitonogamy and xenogamy (d) cleistogamy and xenogamy	 (c) Agar-agar is obtained from <i>Gelidium</i> and <i>Gracilaria</i> (d) <i>Laminaria</i> and <i>Sargassum</i> are used as food 41 Which one of the following statement is not correct? (a) Offspring produced by the asexual reproduction are called clone (b) Microscopic, motile asexual reproductive structures are 					
	Joint Forest Management Concept was introduced in India during (a) 1970s (b) 1980s (c) 1990s (d) 1960s	called zoospores (c) In potato, banana and ginger, the plantlets arise from the internodes present in the modified stem (d) Water hyacinth, growing in the standing water, drains oxygen from water that leads to the death of fishes					
	ction-B Match the Column I with Column II and select the correct option using the codes given below.	42 Match the Column I with Column II and select the correct option using the codes given below.					
	Column I Column II	Column I Column I					
	A. Citric acid 1. <i>Trichoderma</i>	A. Pistil fused together 1. Gametogenesis					
	B. Cyclosporin 2. Clostridium	B. Formation of gametes 2. Pistillate C. Hyphae of higher 3. Syncarpous					
	C. Statins 3. Aspergillus	ascomycetes 5. Syncarpous					
	D. Butyric acid 4. <i>Monascus</i>	D. Unisexual female flower 4. Dikaryotic					
	Codes A B C D (a) 3 1 2 4 (b) 3 1 4 2 (c) 1 4 2 3 4 1 2	Codes A B C D A B C D (a) 4 3 2 1 (b) 2 1 4 3 (c) 1 2 4 3 (d) 3 1 4 2					

37 Select the incorrect statement.

(a) The walls of diatoms are easily destructible (b) 'Diatomaceous earth' is formed by the cell walls of

28 During cell growth, DNA synthesis takes place in

29 Taylor conducted the experiments to prove semi-

(b) G₁-phase

(d) M-phase

(a) S-phase

(c) G₂-phase

	A few drops of sap were complant stem by a suitable mechanically. Which one of the indicates that it is phloem (a) Acidic (c) Low refractive index How many plants among I Allium, Aloe, mustard, grounds.	 47 Select the mismatch. (a) Gas vacuoles — Green bacterial cells (b) Large central vacuoles — Animal cells (c) Protists — Eukaryotes (d) Methanogens — Prokaryotes 48 Match the stages of meiosis in Column I to their characteristic features in Column II and select the coption using the codes given below. 						
	•	different length in their flowers?		C	olumn I		Column II	
45	(a) Three (b) Four	(c) Five (d) Six		A. Pa	achytene	1.	Pairing of homologous chromosomes	
45	Which of the following is the in the origin of life?	ne correct sequence of events		B. M	letaphase-l	2.	Terminalisation of chiasmata	
	I. Formation of protobionts.			C. D	iakinesis	3.	Crossing-over takes place	
	II. Synthesis of organic mon-	omers.		D. Zy	ygotene	4.	Chromosomes align at equatorial plate	
	III. Synthesis of organic poly	mers.		Code				
	V. Formation of DNA based	genetic systems.		(a) 3	_			
	(a) I, II, III, IV	(b) I, III, II, IV		(a) 3 (b) 1				
	(c) II, III, I, IV	(d) II, III, IV, I		(c) 2				
46	Match the Column I with C			(d) 4	3 2 1			
classification and select the correct option using the codes given below.				Selec	t the incorr	ect	statement.	
							ll is made up of peptidoglycan	
	Column I	Column II					are mainly involved in motility of	
	A. Family B. Order	1. Diptera 2. Arthropoda			acterial cell vanobacter		ick flagellated cells	
	C. Class	3. Muscidae					a wall less microorganism	
	D. Phylum	4. Insecta	50	Which	n of the follo	owir	ng is made up of dead cells?	
	Codes A B C D (a) 3 1 4 2 (c) 4 3 2 1	A B C D (b) 3 2 4 1 (d) 4 2 1 3		(a) X (b) C (c) P	ylem paren Collenchyma Phellem Phloem	chy		
		Zool	logy	•				
	If the length of a double he number of base pairs pres	elical DNA is 1.7 metres. The sent in the DNA will be		(b) R (c) E	hizobium m ctobioqueri	elilc Iluei	sei and Streptococcus thermophilus oti and Azotobacter sp. rs ruburn and Sciencealla typhosa and Escherichia coli	
	(c) 1.7×10^9	$(d) 5 \times 10^9$	54	WBCs	accumula	ite a	at site of wound by	
52	The population of an insec	et species shows an explosive grainy season followed by its			pertension aemopoiesi		(b) arteriosclerosis(d) diapedesis	
	disappearance at the end interpreted from this? (a) S-shaped or sigmoid gr	of the season. What can be	55	geogr (a) er	, ,	gior cies	, ,	
	season (c) The population growth (d) The population of insect	curve is of J-type predators increases enormously	56	6 Which of the following is not an evidence that endosymbiosis occurred in the origin of eukaryotes?				
53	Which one of the following responsible for the formati	(a) Chloroplasts have their own DNA(b) The inner membrane of a chloroplast is similar to prokaryotic membranes						

responsible for the formation and flavour of yoghurt?

- (c) Mitochondria and chloroplasts are surrounded by two membranes
- (d) The DNA in the eukaryotic nucleus codes for some enzymes in mitochondria
- 57 A transgenic human protein used for treating emphysema is
 - (a) α -1 antitrypsin
- (b) α -1 globulin
- (c) Cry I Ab protein
- (d) Cry II Ac protein
- **58** What evidence most strongly suggests that an impact by an asteroid or meteorite may have caused the extinction of the dinosaurs?
 - (a) Fossils show that dinosaurs suffered from cold and starvation
 - (b) Sedimentary rocks contain a layer of mineral uncommon
 - (c) There have been several near misses in recent years
 - (d) The dinosaurs disappeared rather abruptly—virtually overnight
- **59** Researchers found that when laboratory rats were already infected with a virus, they were better able to resist infection by a second completely different virus. The first infection apparently caused....., which protected the rats from the second infection.
 - (a) increased stress
- (b) secretion of interferons
- (c) production of antibodies (d) passive immunity
- 60 The ability to reproduce cannot be an all inclusive defining trait of living beings because
 - (a) growth is not exhibited by all living forms
 - (b) many organisms do not reproduce
 - (c) non-living forms can show reproduction
 - (d) all living organisms show small period of reproductive phase in their life
- 61 RBC and a plant cell (with thick cell wall) are placed in distilled water. The solute concentration is the same in both the cells. What changes would be observed in them?
 - (a) Both plant cell and RBC would not undergo any change
 - (b) The RBC would increase in size and burst, while the plant cell would remain about the same size
 - (c) The plant cell would increase in size and burst, while the RBC would remain about the same size
 - (d) Both plant cell and RBC would decrease in size and collapse
- **62** Contraceptive pills are considered very effective and have less side effects. These prevent conception by
 - (a) inhibition of ovulation
 - (b) inhibition of implantation
 - (c) acting as a physical barrier to meeting sperm and ovum
 - (d) Both (a) and (b)
- 63 A chemist has discovered a drug that blocks glucose phosphate isomerase, an enzyme that catalyses the second reaction in glycolysis. He wants to use the drug for bacterial infection in people. But he cannot do this because

- (a) bacteria are facultative anaerobes; they usually do not need to do glycolysis
- (b) glycolysis produces so little ATP that the drug will have little effect
- (c) human cells also do glycolysis; the drug might also poison them
- (d) bacteria do not perform glycolysis
- **64** Which type of hybridisation is done for mule?
 - (a) Inbreeding hybridisation (b) Outbreeding hybridisation
 - (c) Interspecific hybridisation (d) Intraspecific hybridisation
- 65 The disease in poultry, which reduces immunity and spreads through contaminated food is
 - (a) Ranikhet disease
- (b) aflatoxicosis
- (c) thrush
- (d) Marek's disease
- 66 The Kyoto protocol was adopted at the
 - (a) United Nations Framework Convention on Climatic change (UNFCC) in 1992
 - (b) Third conference of the UNFCC in 1997
 - (c) Convention on the Transboundary effects of Industrial Accidents
 - (d) Convention on Biological Diversity
- **67** Which of the following statement is correct regarding hypothalamic control of pituitary function?
 - (a) All the hypothalamic hormones are synthesised and secreted by neurons
 - (b) Blood flows from the anterior pituitary to the hypothalamus in the portal vessels
 - (c) The hypothalamic releasing hormones reach the general circulation in significant amount
 - (d) Loss of dopaminergic neurons in the hypothalamus is likely to lead to a fall in the secretion of prolactin
- 68 In a random mating population in equilibrium, which one of the following brings about a change in gene frequency in a non-directional manner?
 - (a) Mutations
- (b) Random drift
- (c) Selection
- (d) Migration
- 69 In ileum, which of the following is absorbed?
 - (a) Vitamin-K
 - (b) Monosaccharides
 - (c) Bile salts
 - (d) Fats
- 70 Which of the following discoveries resulted in a Nobel Prize?
 - (a) Recombination of linked genes
 - (b) Genetic engineering
 - (c) X-rays induce sex-linked recessive lethal mutations
 - (d) Cytoplasmic inheritance
- 71 Identify which of the following phyla is correctly matched with its two general characteristics.
 - (a) Echinodermata-Pentamerous, radial symmetry and mostly internal fertilisation
 - (b) Mollusca-Normally oviparous and development through a trochophore or veliger larva

- (c) Arthropoda–Body divided into head, thorax and abdomen and respiration by trachea
- (d) Chordata–Notochord at some stage and separate anal and urinary opening to the outside
- **72** Which of the following constitutes for lymph?
 - (a) WBCs and serum
 - (b) All components of blood except RBCs and some proteins
 - (c) RBCs, WBCs and plasma
 - (d) RBCs, proteins and platelets
- 73 Biological equilibrium is found among the
 - (a) producers, consumers and decomposers
 - (b) producers and consumers
 - (c) producers and decomposers
 - (d) None of the above
- **74** Synthesis of RNA molecule is terminated by a signal which is recognised by
 - (a) α (alpha) factor
- (b) γ (gamma) factor
- (c) ρ (rho) factor
- (d) δ (delta) factor
- **75** Which of the following depicts the correct pathway of transport of sperms?
 - (a) Rete testis \rightarrow Efferent ductules \rightarrow Epididymis \rightarrow Vas deferens
 - (b) Rete testis → Epididymis → Efferent ductules → Vas deferens
 - (c) Rete testis \rightarrow Vas deferens \rightarrow Efferent ductules \rightarrow Epididymis
 - (d) Efferent ductules \rightarrow Rete testis \rightarrow Vas deferens \rightarrow Epididymis
- **76** If '+' sign is assigned to beneficial interaction, '-' sign to detrimental and '0' sign to neutral interaction, then the population interaction represented by '+' '-' refers to
 - (a) mutualism
- (b) amensalism
- (c) commensalism
- (d) parasitism
- 77 Smooth muscles are
 - (a) involuntary, fusiform, non-striated
 - (b) voluntary, multinucleate, cylindrical
 - (c) involuntary, cylindrical, striated
 - (d) voluntary, spindle-shaped, uninucleate
- **78** Which hormones do stimulate the production of pancreatic juice and bicarbonate?
 - (a) Angiotensin and epinephrine
 - (b) Gastrin and insulin
 - (c) Cholecystokinin and secretin
 - (d) Insulin and glucagon
- **79** Name the ion responsible for unmasking of active sites for myosin for cross-bridge activity during muscle contraction.
 - (a) Calcium
- (b) Magnesium
- (c) Sodium
- (d) Potassium

- **80** The chronological order of human evolution from early to the recent is
 - (a) Australopithecus \rightarrow Ramapithecus \rightarrow Homo habilis \rightarrow Homo erectus
 - (b) Ramapithecus \rightarrow Australopithecus \rightarrow Homo habilis \rightarrow Homo erectus
 - (c) Ramapithecus → Homo habilis → Australopithecus → Homo erectus
 - (d) Australopithecus → Homo habilis → Ramapithecus → Homo erectus
- 81 Serum differs from blood in
 - (a) lacking globulins
- (b) lacking albumins
- (c) lacking clotting factors
- (d) lacking antibodies
- **82** Which of the following is incorrect regarding vasectomy?
 - (a) No sperm occurs in seminal fluid
 - (b) No sperm occurs in epididymis
 - (c) Vasa deferentia is cut and tied
 - (d) Irreversible sterility
- 83 Graves' disease is caused due to
 - (a) hyposecretion of thyroid gland
 - (b) hypersecretion of thyroid gland
 - (c) hyposecretion of adrenal gland
 - (d) hypersecretion of adrenal gland
- **84** Which of the following is correct for *r*-selected species?
 - (a) Large number of progeny with small size
 - (b) Large number of progeny with large size
 - (c) Small number of progeny with small size
 - (d) Small number of progeny with large size
- **85** As a result of ligation of a foreign DNA at the *Bam* HI site carrying tetracycline resistance gene in pBR322, the recombinant plasmid will exhibit
 - (a) only ampicillin resistance
 - (b) tetracycline resistant
 - (c) ampicillin sensitivity
 - (d) sensitivity towards both the tetracycline and ampicillin

Section-B

- **86** Choose the correct statement.
 - (a) Nociceptors respond to changes in pressure
 - (b) Meissner's corpuscles are thermoreceptors
 - (c) Photoreceptors in the human eye are depolarised during darkness and become hyperpolarised in response to the light stimulus
 - (d) Receptors do not produce graded potentials
- **87** Geneticists suspect that the extrachromosome seen in Down's syndrome usually comes from the egg, rather than the sperm, because
 - (a) eggs are produced so rapidly that there is more chance for error
 - (b) Down's syndrome is due to a dominant gene in women, a recessive gene in men

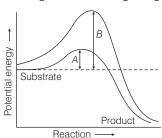
- (c) most women inherit Down's syndrome from their mothers
- (d) meiosis takes longer in the ovary, increasing the likelihood of error
- 88 Which kind of therapy was given in 1990 to a four-year-old girl with Adenosine Deaminase (ADA) deficiency?
 - (a) Gene therapy
 - (b) Chemotherapy
 - (c) Immunotherapy
 - (d) Radiation therapy
- 89 Match the Column I with Column II and select the correct option using the codes given below.

	Column I		Column II
Α.	Mons pubis	1.	Embryo formation
В.	Antrum	2.	Sperm
C.	Trophectoderm	3.	Female external genitalia
D.	Nebenkern	4.	Graafian follicle

Codes

	Α	В	С	D			Α	В	С	D
(a)	3	4	2	1	(b	o)	3	4	1	2
(c)	3	1	4	2	(c	d)	1	4	3	2

90 Which of the following describes the given graph correctly?



- (a) Endothermic reaction with energy A in the presence of enzyme and B in the absence of enzyme
- (b) Exothermic reaction with energy A in the presence of enzyme and *B* in the absence of enzyme
- (c) Endothermic reaction with energy A in the absence of enzyme and B in the presence of enzyme
- (d) Exothermic reaction with energy A in the absence of enzyme and B in the presence of enzyme
- 91 If a colourblind man marries a woman who is homozygous for normal colour vision, the probability of their son being colourblind is

(a) 0

(b) 0.5

(c) 0.75

(d) 1

- **92** Read the following statements.
 - I. Preganglionic nerve fibres of III, VII, IX and X cranial nerves are a part of the parasympathetic nervous
 - II. VII, IX and X cranial nerves are mixed nerves.
 - III. Trochlear nerves are the largest cranial nerves.
 - IV. Abducens nerves are motor nerves and originate from the Gasserian ganglia.

Which of the above statements are correct?

(a) I and IV (c) II and III (b) I and II (d) I and III

93 Match the following columns.

Column I (Types of bacteria)	Column II (Activity)
A. Streptomyces	1. Food poisoning
B. Rhizobium	2. Source of antibiotics
C. Nitrosomonas	3. Nitrogen-fixation
D. Acetobacter	4. Nitrification
	5. Vinegar synthesis

Codes

	Α	В	С	D		Α	В	С	D
(a)	2	3	1	5	(b)	2	3	4	5
(c)	4	5	1	3	(d)	5	1	3	4

94 Match the following columns.

Column I (Bacteria)	Column II (Human disease)
A. Treponema pallidum	1. Syphilis
B. Bordetella pertussis	2. Whooping cough
C. Pasteurella pestis	3. Bubonic plague
D. Vibrio cholerae	4. Cholera

Coc	les								
	Α	В	С	D		Α	В	С	D
(a)	1	2	3	4	(b)	4	3	2	1
(c)	1	3	2	4	(d)	3	1	2	4

- 95 Read the statements regarding muscle proteins.
 - I. Actin is a thin filament and is made up of two F-actins.
 - II. The complex protein, tropomyosin is distributed at regular intervals of troponin.
 - III. Myosin is a thick filament, which is also a polymerised protein.
 - IV. The globular head of meromyosin consists of Light Meromyosin (LMM).

Which of the above statements are correct?

(a) I, II and III

(b) I, II and IV

(c) I and III

(d) II and IV

- **96** Refer the following features.
 - I. Adenohypophysis produces gonadotrophins.
 - II. Besides sex cells, hormones are also produced by testis and ovary.
 - III. Testosterone is produced by Leydig's cells.
 - IV. Oestrogen is produced by ovary.

Which of the above factors influence secondary sexual characters?

- (a) III and IV
- (b) II, III and IV
- (c) II and III
- (d) I, II, III and IV

97 Match the following columns.

Column I (Excretory organ)	Column II (Animal)
A. Metanephridia	1. Hydra
B. Malpighian tubules	2. Leech
C. Protonephridia	3. Shark
D. Kidneys	4. Flatworms
	5. Cockroach

Codes

A B C D

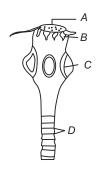
(a) 2 5 4 3

(b) 4 2 1 5

(c) 1 2 4 3

(d) 2 4 5 4

98 In the given diagram, different parts are indicated by alphabets. Choose the answer, in which these alphabets correctly match with the parts they indicate.



(a) A-Rostellum	B-Hooks
C-Sucker	D-Proglottids
(b) A-Suctorial mout	th <i>B</i> -Hooks
C-Sucker	D-Segments
(c) A-Mouth	B-Tentacles
C-Sucker	D-Segments
(d) A-Sucker	B-Hairs
C-Ring	D-Proglottids

- **99** Mammalian lungs have a very high number of air sacs called alveoli, which permit
 - (a) increased volume of inspired air
 - (b) increased surface area for gaseous exchange
 - (c) spongy texture of lungs
 - (d) active nerve supply

100 Match the following columns.

	Column I		Column II
Α.	Inguinal canal	1.	Network of seminiferous tubules
В.	Rete testes	2.	Secondary sexual character
C.	Leydig's cells	3.	Far descending of testis
D.	Prepuce	4.	Spongy erectile tissue
E.	Corpora cavernosa	5.	Terminal skin of penis

Codes

A B C D E
(a) 1 2 3 5 4

A B C D E (b) 3 1 4 2 5

(c) 3 1 2 5 4

(d) 2 4 3 5 1

Answers

Botany

	-																		
1	(b)	2	(a)	3	(d)	4	(d)	5	(d)	6	(a)	7	(a)	8	(a)	9	(b)	10	(d)
11	(a)	12	(c)	13	(b)	14	(a)	15	(b)	16	(c)	17	(a)	18	(b)	19	(c)	20	(a)
21	(c)	22	(c)	23	(c)	24	(d)	25	(b)	26	(c)	27	(c)	28	(a)	29	(b)	30	(c)
31	(c)	32	(b)	33	(d)	34	(b)	35	(b)	36	(b)	37	(a)	38	(b)	39	(c)	40	(b)
41	(c)	42	(d)	43	(b)	44	(b)	45	(c)	46	(a)	47	(b)	48	(a)	49	(b)	50	(c)

Zoology

51	(d)	52	(c)	53	(a)	54	(a)	55	(d)	56	(d)	57	(a)	58	(b)	59	(b)	60	(b)
61	(b)	62	(d)	63	(c)	64	(c)	65	(b)	66	(b)	67	(a)	68	(b)	69	(c)	70	(c)
71	(c)	72	(b)	73	(a)	74	(c)	75	(a)	76	(d)	77	(a)	78	(c)	79	(a)	80	(b)
81	(c)	82	(b)	83	(b)	84	(a)	85	(a)	86	(c)	87	(d)	88	(a)	89	(b)	90	(b)
91	(a)	92	(b)	93	(b)	94	(a)	95	(c)	96	(d)	97	(a)	98	(a)	99	(b)	100	(c)