Test Booklet Code

C4

NEET (UG) 2023

(MANIPUR)

Questions, Answer Key & Solutions | Subject : Biology

Date: 06 June, 2023 | TIME: (12:00 Noon to 03:20 PM)

Duration: 200 minutes (03 Hrs. 20 Min.) | Max. Marks: 720

Important Instructions:

- The Answer Sheet is inside this Test Booklet. When you are directed to open the Test Booklet, take out the Answer Sheet and fill in the particulars on OFFICE Copy carefully with blue/black ball point pen only.
- 2. The test is of 3 hours 20 minutes duration and Test Booklet contains 200 multiple-choice questions (four options with a single correct answer) from Physics, Chemistry and Biology (Botany and Zoology). 50 questions in each subject are divided into two Sections (A and B) as per details given below:
 - (a) Section A shall consist of 35 (Thirty-five) Questions in each subject (Questions Nos 1 to 35, 51 to 85, 101 to 135 and 151 to 185). All questions are compulsory.
 - (b) Section B shall consist of 15 (Fifteen) questions in each subject (Question Nos 36 to 50, 86 to 100, 136 to 150 and 186 to 200). In Section B, a candidate needs to attempt any 10 (Ten) questions out of 15 (Fifteen) in each subject.

Candidates are advised to read all 15 questions in each subject of Section B before they start attempting the question paper. In the event of a candidate attempting more than ten questions, the first ten questions answered by the candidate shall be evaluated.

- 3. Each question carries **4 marks**. For each correct response, the candidate will get 4 marks. For each incorrect response, **one mark** will be deducted from the total scores. **The maximum marks are 720.**
- 4. Use Blue/Black Ball Point Pen only for writing particulars on this page/marking responses on Answer Sheet.
- 5. Rough work is to be done on the space provided for this purpose in the Test Booklet only.
- 6. On completion of the test, the candidate must hand over the Answer Sheet (ORIGINAL and OFFICE Copy) to the Invigilator before leaving the Room/Hall. The candidates are allowed to take away this Test Booklet with them.
- 7. The CODE for this Booklet is F6. Make sure that the CODE printed on the Original Copy of the Answer Sheet is the same as that on this Test Booklet. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Test Booklet and the Answer Sheet.
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- 9. Use of white fluid for correction is **NOT** permissible on the Answer Sheet.
- 10. Each candidate must show on-demand his/her Admit Card to the Invigilator.
- 11. No candidate, without special permission of the centre Superintendent or Invigilator, would leave his/her seat.
- 12. The candidates should not leave the Examination Hall without handing over their Answer Sheet to the Invigilator on duty and sign (with time) the Attendance Sheet twice. Cases, where a candidate has not signed the Attendance Sheet second time, will be deemed not to have handed over the Answer Sheet and dealt with as an Unfair Means case.
- 13. Use of Electronic/ Manual Calculator is prohibited.
- 14. The candidates are governed by all Rules and Regulations of the examination with regard to their conduct in the Examination Room/Hall. All cases of unfair means will be dealt with as per the Rules and Regulations of this examination.
- 15. No part of the Test Booklet and Answer Sheet shall be detached under any circumstances.
- 16. The candidates will write the Correct Test Booklet Code as given in the Test Booklet/Answer Sheet in the Attendance Sheet.
- 17. Compensatory time of one hour five minutes will be provided for the examination of three hours and 20 minutes duration, whether such candidate (having a physical limitation to write) uses the facility of scribe or not.

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C4

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PART-C : BIOLOGY

Section- A (Biology: Botany)

101. Match List-I with List-II.

List - I

- (A) Protein C = C double bonds
- (B) Unsaturated fatty acid (II) Phosphodiester bond
- (C) Nucleic acid (III) Glycosidic bonds
- (D) Polysaccharide (IV) Peptide bonds

Choose the correct answer from the options given below:

- (1) (A)-(II), (B)-(I), (C)-(IV), (D)-(III) (2) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
- (3) (A)-(IV), (B)-(III), (C)-(II), (D)-(III) (4) (A)-(I), (B)-(IV), (C)-(III), (D)-(II)

Ans. (3)

102. Match List-I with List-II.

List - I List-II

- (A) Hydrarch succession (I) Gradual change in the species composition
- (B) Xerarch succession (II) Faster and climax reached quickly
- (C) Ecological succession (III) Lichens to mesic conditions
- (D) Secondary succession (IV) Phytoplankton to mesic conditions

Choose the correct answer from the options given below:

- (1) (A)-(IV), (B)-(II), (C)-(III), (D)-(I) (2) (A)-(III)
 - (2) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (3) (A)-(I), (B)-(IV), (C)-(II), (D)-(III)
- (4) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

Ans. (4)

103. In calotropis, aestivation is:

- (1) Valvate (2) \
 - (2) Vexillary
- (3) Imbricate
- (4) Twisted

Ans. (1)

104. Match List-I with List-II.

List-II

- (A) Chlorophyll a (I) Yellow to yellow orange
- (B) Chlorophyll b (II) Yellow green
- (C) Xanthophyll (III) Blue green
- (D) Carotenoid (IV) Yellow

Choose the correct answer from the options given below:

- (1) (A)-III), (B)-(II), (C)-(IV), (D)-(I) (2) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (3) (A)-(II), (B)-(III), (C)-(I), (D)-(IV) (4) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

Ans. (1)

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105. Nitrates and phosphates flowing from agricultural farms into water bodies are a significant cause of:

List-II

(I) 1:1

(1) Eutrophication

(2) Humification

(3) Mineralisation

(4) Stratification

Ans. (1)

106. Match List-I with List-II.

List-I

(Type of cross) (Phenotypic ratio)

(A) Monohybrid Cross

(B) Dihybrid Cross (II) 1:2:1

(C) Incomplete dominance (III) 3:1

(D) Test Cross (IV) 9:3:3:1

Choose the correct answer from the options given below:

(1) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)

(2) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)

(3) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

(4) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

Ans. (1)

107. How many times decarboxylation occurs during each TCA cycle?

(1) Thrice

(2) Many

(3) Once

(4) Twice

(4) Ans.

108. The dissolution of synaptonemal complex occurs during

(1) Pachytene

(2) Diplotene

(3) Diakinesis

(4) Leptotene

Ans. (2)

109. Identify the correct statements regarding Mass flow hypothesis.

(A) Mass flow is faster than diffusion.

(B) Mass flow is the result of pressure difference between the end points.

(C) Different substances involved in mass flow move at different paces.

(D) Mass flow can result through either a positive or a negative hydrostatic pressure gradient.

Choose the correct answer from the options given below:

(1) (A), (C), (D) only

(2) (B), (C), (D) only

(3) (A), (B), (C) only

(4) (A), (B), (D) only

(4) Ans.

110. Doubling of the number of chromosomes can be achieved by disrupting mitotic cell division soon after

(1) Anaphase

(2) Telophase (3) Prophase (4) Metaphase

Ans. (1)

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116. The phenomenon which is influenced by auxin and also played a major role in its discovery:

(1) Phototropism

(2) Root initiation

(3) Gravitropism

(4) Apical Dominance

Ans. (1)

A transverse section of a plant part showed polyarch, radial and exarch xylem, with endodermis and 117. pericycle. The plant part is identified as:

(1) Monocot root (2) Dicot root (3) Dicot stem

(4) Monocot stem

(1)Ans.

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(A) Pteropsida (I) Psilotum

(B) Lycopsida (II) Equisetum

(C) Psilopsida (III) Adiantum

(D) Sphenopsida (IV) Selaginella

Choose the correct answer from the options given below:

(1) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)

(2) (A)-(I), (B)-(I), (C)-(IV), (D)-(II)

(3) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

(4) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

Ans. (4)

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124.	Inulin is a polymer of:					
	(1) Fructose (2) Galactos	ie e	(3) Amino Acids	(4) Glucose		
Ans.	(1) Educating for better tomorrow					
125.	Thermostable DNA polymerase used in PCR was isolated from:					
	(1) Thermus aquaticus		(2) Escherichia col	; Resonance		
	(3) Agrobacterium tumifaciens		(4) Bacillus thuring			
Ans.	(1) Educating for better tomorrow		prrow Educating for be			
126.	Name the component that binds to the	ne operator	r region of an operon	and prevents RNA po	lvmerase from	
.20.	transcribing the operon.	ο οροιαιοι	rogion of an operan	and provonto raw tpo		
	(1) Promotor (2) Regulato	or protein	(3) Repressor prote	ein (4) Inducer		
Ans.	atir(3) better to			· /		
127.	A hotorozygous pop plant with violet f	lowers was	s crossed with a home	ozvaous poa plant with	white flowers	
Re	A heterozygous pea plant with violet flowers was crossed with a homozygous pea plant with white flowers. Violet is dominant over white. Which one of the following represents the expected combinations among					
	40 progenies formed?					
	(1) 30 produced violet and 10 produced white flowers					
	(2) 20 produced violet and 20 produced					
	(3) All 40 produced violet flowers					
	(4) All 40 produced white flowers					
Ans.	(2)					
128.	Fatty acids are connected with the re	espiratory r	oathway through:			
	(1) Acetyl CoA	, , , , , , ,	(2) a-Ketoglutaric a	acid		
	(3) Dihydroxy acetone phosphate		(4) Pyruvic acid			
Ans.	(1)		` '			
129.	Ligation of foreign DNA at which of th	e following	ı eitə will regult in loce	of tetracyclin resistance	of PRR3222	
Re	(1) Pst I (2) Pvu I	_	(3) EcoR I	(4) BamH I	GE OFF DINOZZ:	
Ans.	(4)		(0) 2001(1	(4) Ballil I I		
130.	Match List-I with List-II.		I :a4 II			
	List-I	SONANO	List-II	lower formation in cuc	onance"	
	(A) Auxin (B) Gibberellin	(I) (II)			umber	
	(C) Cytokinin	(11)	Overcoming apical dominance Increase in the length of grape stalks			
	(D) Ethylene	(IV)	Promotes flowering	ance" Res		
	Choose the correct answer from the	` '		Resonance		
	(1) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)	ow. E)-(IV), (B)-(III), (C)-(II)), (D)-(I)		
	(3) (A)-(I), (B)-(III), (C)-(IV), (D)-(II))-(III), (<mark>B)-(</mark> II), (C)-(I),			
Ans.	(2)					

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Section - B (Biology: Botany)

136. Which of the following mineral ion is not remobilized in plants?

(1) Potassium

(2) Calcium

(3) Nitrogen

(4) Phosphorus

Ans. (2)

Ans.

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- 137. Which out of the following statements is incorrect?
 - (1) Grana lamellae have both PSI and PSII
 - (2) Cyclic photophosphorylation involves both PSI and PS II
 - (3) Both ATP and NADPH+H+ are synthesised during non-cyclic photophosphorylation.
 - (4) Stroma lamellae lack PS II and NADP reductase
- (2)Ans.
- 138. Match Column-I with Column-II.

Column-I

Column-II

- (A) Nitrococcus
- (I) Denitrification.
- (B) Rhizobium
- (II) Conversion of ammonia to nitrite
- (C) Thiobacillus
- (III) Conversion of nitrite to nitrate
- (D) Nitrobacter
- (IV) Conversion of atmospheric nitrogen to ammonia

Choose the correct option.

- (1) (A)-(III) (B)-(I) (C)-(IV), (D)-(II)
- (2) (A)-(IV) (B)-(III) (C)-(II), (D)-(I)
- (3) (A)-(II) (B)-(IV) (C)-(I), (D)-(III)
- (4) (A)-(I) (B)-(II) (C)-(III), (D)-(IV)
- Ans. (3)
- 139. In angiosperms the correct sequence of formation of female gametophyte in the oval even
 - (A) 3 successive free nuclear division functional megaspore.
 - (B) Degeneration of 3 megaspores
 - (C) Meiotic division in megaspore mother cell
 - (D) Migration of 3 nuclei towards each pole.
 - (E) Formation of wall resulting in seven cellar embryo sac.

Choose the correct answer from the options below:

(1) (A), (B), (C), (D), (E)

(2) (C), (E), (A), (D), (B)

(3) (B), (C), (A), (D), (E)

(4) (C), (B), (A), (D). (E)

- Ans. (4)
- 140. Which of the following statements is true?
 - (1) All pteridophytes exhibit haplo-diplont pattern
 - (2) Seed bearing plants follow haplontic pattern
 - (3) Most algal genera are diplontic
 - (4) Most bryophytes do not have haplo-diplo life cycle
- Ans. (1)
- 141. Which of the following statement is incorrect about Agrobacterium tumifaciens?
 - (1) It is used to deliver gene of interest in a prokaryotic as well as eukaryotic host cells
 - (2) "Ti' plasmid from Agrobacterium tumifaciens used for gene transfer is not pathogenic: plant cells.
 - (3) It transforms normal plant cells into tumors cells.
 - (4) It delivers 'T-DNA' into plant cell.
- Ans. (1)

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(E) Intercalary meristem Identify the lateral meristems among the above.

(1) (A), (C) and (D) only (2) (B), (C) and (D) only

(3) (A), (B), (C) and (E) only (4) (A), (B), (D) and (E) only

Ans. (2)

143. Match List-I with List-II.

List-II List-I

(I) Delivers genes into animal cells (A) Kanamycin

(II) Selectable marker (B) Clal (C) Disarmed retroviruses (III) Restriction site.

(IV) Antibiotic resistance (D) Kanamycin gene

Choose the correct answer from the options given below:

(1) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)

(2) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)

(3) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

(4) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)

Ans. (3)

144. Given below are two statements:

Statement I:

The process of copying genetic information from one strand of the DNA into RNA is termed as transcription.

Statement II:

A transcription unit in DNA is defined primarily by the three regions in the DNA i.e. a promotor, the structural gene and a terminator.

In the light of the above statements, choose the correct answer from the options given below:

(1) Statement I is true but Statement II is false

(2) Statement I is false but Statement II is true

(3) Both Statement I and Statement II are true

(4) Both Statement I and Statement II are false

Ans. (3)

145. Which scientist conducted an experiment with 32P and 355 labelled phages for demonstrating that DNA is the genetic material?

(1) James D. Watson and F.H.C. Crick

(2) A.D. Hershey and M.J. Chase

(3) F.Griffith

(4) O.T. Avery, C.M. MacLeod and M. McCarty

Ans.

146. A certain plant homozygous for yellow seeds and red flowers was crossed with a plant homozygous for green seeds and white flowers. The F₁ plants had yellow seeds and pink flowers. The F₁ plants were selfed to get F2 progeny. Assuming independent assortment of the two characters, how many phenotypic categories are expected for these characters in the F₂ generation?

(1)9(2) 16

(4) Ans.

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(4) 6



147. During which stages of mitosis and meiosis, respectively does the centromere of each chromosome split? (1) Metaphase, Metaphase II (2) Prophase, Telophase I (3) Telophase, Anaphase I (4) Anaphase, Anaphase II Ans. (4)148. Which of the following statements is not correct? (1) Phase of cell elongation of plant cells is characterized by increased vacuolation. (2) Cells in the meristematic phase of growth exhibit abundant plasmodesmatal connections. (3) Plant growth is generally determinate. (4) Plant growth is measurable. Ans. (3)149. Match the following: Type of flower Example (A) Zygomorphic (I) Mustard (B) Hypogynous (II) Plum (C) Perigynous (III) Cassia (IV) Cucumber (D) Epigynous Select the correct option: (1) (A)-(I), (B)-(II), (C)-(IV), (D)-(III) (2) (A)-(I), (B)-(I), (C)-(III), (D)-(IV) (3) (A)-(IV), (B)-(I), (C)-(III), (D)-(II) (4) (A)-(III), (B)-(I), (C)-(II), (D)-(IV) (4)Ans. 150. Given below are two statements: Statement 1: The process of translocation through phloem is unidirectional but through xylem, it is bidirectional. Statement II: The most readily mobilized elements are phosphorus, sulphur, nitrogen and potassium. In the light of the above statements, choose the most appropriate answer from the options given below: (1) Statement I is correct but Statement II is incorrect (2) Statement I is incorrect but Statement II is correct (3) Both Statement I and Statement II are correct (4) Both Statement I and Statement II are incorrect Ans. (2) Section - A (Biology - Zoology) 151. Which of the following sexually transmitted infections are completely curable? (1) HIV infection and Trichomoniasis (2) Syphilis and Trichomoniasis (3) Hepatitis-B and Genital herpes (4) Genital herpes and Genital warts Ans. (2) 152. Match List-I with List-II.

List-I List-II

(A) Typhoid (I) Protozoan (B) Elephantiasis (II) Salmonella (C) Ringworm (III) Aschelminthes (D) Malaria (IV) Microsporum

Choose the correct answer from the options given below:

(2) (A)-(I), (B)-(III), (C)-(IV), (D)-(II) (1) (A)-(I), (B)-(IV), (C)-(III), (D)-(II) (3) (A)-(II), (B)-(III), (C)-(IV), (D)-(I) (4) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)

Ans. (3)

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\\ Re Educa	2SONANCE®		NEET (UG) 2023	DATE: 06-06-202	23 BIOLOGY
153.	Which of the follow	ving is not a secondary m	etabolite?		
	(1) Curcumin	(2) Morphine	(3) Anthocyanin	(4) Lecithin	
Ans.	(4) better temorrow				
154 .	Arrange the seque	ence of different hormones	s for their role during gam	etogenesis.	
	(A) Gonadotropin	<mark>LH</mark> stimulates synthesis <mark>a</mark>	nd secretion of Androgen		
	(B <mark>) Go</mark> nadotropin	releasing <mark>horm</mark> one from h	ypothalam <mark>us</mark>		
	(C <mark>) An</mark> drogen stim	ulates spermatogenesis			
	(D) Gonadotropin	FSH helps in the process	of spermiogenesis		
	(E) Gonadotropins from anterior pituitary gland				
	Choose the correct	t answer from the options	given below:		
	(1) (E), (A), (D), (B	B), (C)	(2) (C), (A), (D), (E)	(B)	
	(3) (B), (E), (A), (C	C), (D)	(4) (D), (B), (A), (C),	(E)	
Ans.	(3)				
155.	House fly belongs	to family.			
Re	(1) Cyprinidae	(2) Hominidae	(3) Calliphoridae	(4) Muscidae	
Ans.	(4)				
450					
156.		atement, regarding chemi		0	
		molecule consists of three			
	` ' <u> </u>	esized as prohormone wh		of C-peptide.	
		ot present in mature insuli			
Ans.	(1) (1)	ains A and B are linked b	distripline bridges.		
Alis.	(1)				
157.	Which one of the f	following is the quiescent	stage cell cycle?		
137.	(1) M	(2) G_2	(3) G ₁	(4) G ₀	
Ans.	(4)	(2) 02	(3) 01	(4) 00	
	(4)				
158.	Given below are to	wo statements:			
	Statement I:				
	Educeting for society	le, mutate <mark>at a</mark> faster rate	HONORROW Educating for better		
	Statement II:	Resonance*	Resonance"	Resonanc	
	•	code for synthesis of prote			
	Educating for better	above stat <mark>eme</mark> nts, choose		the options given t	pelow:
	aconanco"	correct but Statement II is			
		incorrect but Statement II			
	Hecona	t I and Statement II are tr			
	` '	t I and Statement II are fa	AISE row Educating for bette		
Ans.	(3)				

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Given below are two statements: one is labelled as Assertion (A) and the other is labelled as Reason (R). Assertion (A):

Ascending limb of loop of Henle is impermeable to water and allows transport of electrolytes actively or passively.

Reason (R):

Dilution of filtrate takes place due to efflux of electrolytes in the medullary fluid.

In the light of the above statements, choose the correct answer from the options given below:

- (1) (A) is true but (R) is false
- (2) (A) is false but (R) is true
- (3) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (4) Both (A) and (R) are true but (R) is not the correct explanation of (A)

(3)Ans.

160. The Cockroach is:

(1) Ammonotelic only

(2) Uricotelic only

(3) Ureotelic only

(4) Ureotelic and Uricotelic

Ans. (2)

- 161. Which of the following statements are correct with respect to the hormone and its function?
 - (A) Thyrocalcitonin (TCT) regulates the blood calcium level.
 - (B) In males, FSH and androgens regulate spermatogenesis.
 - (C) Hyperthyroidism can lead to goitre.
 - (D) Glucocorticoids are secreted in Adrenal Medulla.
 - (E) Parathyroid hormone is regulated by circulating levels of sodium ions.

Choose the most appropriate answer from the options given below:

(1) (C) and (E) only

(2) (A) and (B) only

(3) (B) and (C) only

(4) (A) and (D) only

Ans. **(2)**

- 162. Select the sequence of steps in Respiration
 - (A) Diffusion of gases (O₂ and CO₂) across alveolar membrane.
 - (B) Diffusion of O₂ and CO₂, between blood and tissues.
 - (C) Transport of gases by the blood.
 - (D) Pulmonary ventilation by which atmospheric air is drawn in and CO₂, rich alveolar air is released out.
 - (E) Utilisation of O₂ by the cells for catabolic reactions and resultant release of CO₂

Choose the correct answer from the options given below:

(1) (D), (A), (C), (B), (E)

(2) (C), (B), (A), (E), (D)

(3) (B), (C), (E), (D), (A)

(4) (A), (C), (B), (E), (D)

Ans. (1)

- 163. Which of the following is/are cause(s) of biodiversity losses?
 - (1) Over-exploitation, habitat loss and fragmentation
 - (2) Climate change only
 - (3) Over-exploitation only
 - (4) Habitat loss and fragmentation only

Ans. (1)

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164.	Match List-I with List-II.		
	ati List-In tomorrow Educating for bet	List-II ducating for better temorrow	
	(A) Contractile vacuole (B) Water vascular system	(I) Asterias (II) Amoeba	
	(C) Canal system (D) Flame cells	(III) Spongilla (IV) Taenia	
	Choose the correct answer from (1) (A)-(IV), (B)-(II), (C)-(I), (D)-(2) (A)-(I), (B)-(III), (C)-(II), (D)-(III), (C)-(III), (D)-(III), (D)-(IIII), (D)-(IIIII), (D)-(IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	m the options given below:	
	(3) (A)-(III), (B)-(II), (C)-(I), (D)-(4) (A)-(II), (B)-(I), (C)-(III), (D)-(III), (D)-(IIII), (D)-(IIII), (D)-(IIII), (D)-(IIII), (D)-(IIII), (D)-(IIII), (D)-(IIIII), (D)-(IIIII), (D)-(IIIII), (D)-(IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	(IV)	
Ans.	(4)		
165.	Match List - I with List - II. List-I (A) Palm bones (B) Wrist bones	List-II (I) Phalanges (II) Metacarpals	
	(C) Ankle bones (D) Digit bones Choose the correct answer from	(III) Carpals (IV) Tarsals	
	(1) (A)-(I), (B)-(III), (C)-(I), (D)-(2) (A)-(IV), (B)-(I), (C)-(II), (D)-(IV), (C)-(II), (D)-(IV), (C)-(IV), (C)-(I	-(II) (II)	
Ans.	(4) (A)-(II), (B)-(III), (C)-(IV), (D (4))-(1)	
166.	Match List-I with List-II.		
	List-1 (A) Non-medicated IUDS (B) Copper releasing IUDS (C) Hormone releasing (D) Vaults Choose the correct answer from (1) (A)-(IV), (B)-(III), (C)-(I), (D) (2) (A)-(II), (B)-(IV), (C)-(III), (D) (3) (A)-(III), (B)-(IV), (C)-(IV), (D) (4) (A)-(III), (B)-(IV). (C)-(II), (D))-(II))-(I))-(II)	
Ans.	(3) Resonance®		
167.	Which of the following can act (1) Restriction enzymes	as molecular scissors?	
	(2) DNA ligase (3) RNA polymerase		
Ans.	(4) DNA polymerase (1)		

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Select the correct statements about sickle cell anaemia.

168.

(A) There is a change in gene for beta globin. (B) In the beta globin, there is valine in the place of Lysine. (C) It is an example of point mutation. (D) In the normal gene U is replaced by A. Choose the correct answer from the options given below: (1) (B) (C) and (D) only (2) (B) and (D) only (3) (A), (B) and (D) only (4) (A) and (C) only Ans. (4) Given below are two statements: 169. Statement I: Intra Cytoplasmic Sperm Injection (ICSI) is another specialised procedure of in-vivo fertilisation. Statement II: Infertility cases due to inability of the male part to inseminate female can be corrected by artifici insemination (A). In the light of the above statements, choose the come answer from the options given below: (1) Statement I is correct but Statement II is (2) Statement I is incorrect but Statement II true (3) Both Statement I and Statement II are true (4) Both Statement I and Statement II are false Ans. (2) 170. Match List-I with List-II. List-I List-II (ECG) (Electrical activity of heart) (A) P-wave (I) Depolarisation of ventricles (B) QRS complex (II) End of systole (C) T-wave (III) Depolarisation of atria (D) End of T wave (IV) Repolarisation of ventricles Choose the correct answer from the options given below: (1) (A)-(IV), (B)-(I), (C)-(III), (D)-(II) (2) (A)-(I), (B)-(IV), (C)-(III), (D)-(II) (3) (A)-(IV), (B)-(III), (C)-(I), (D)-(II) (4) (A)-(III), (B)-(I), (C)-(IV), (D)-(II) Ans. (4) Match List-I with List - II. 171. List-I List-II (I) 6-8% (A) Eosinophils (B) Lymphocytes (II) 2-3%(C) Neutrophils (III) 20-25% (D) Monocytes (IV) 60-65% Choose the correct answer from the options given below: (1) (A)-(IV), (B)-(I), (C)-(II), (D)-(III) (2) (A)-(IV), (B)-(I), (C)-(III), (D)-(II) (3) (A)-(II), (B)-(III), (C)-(IV), (D)-(I) (4) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)

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Ans.

Given below are two statements: 172.

Statement I:

Goblet cells are unicellular glands.

Statement II:

Earwax is the secretion of exocrine gland.

In the light of the above statements, choose the correct answer from the options given below:

- (1) Statement I is true but Statement II is false
- (2) Statement I is false but Statement II is true
- (3) Both Statement I and Statement II are true
- (4) Both Statement I and Statement II are false

Ans. (3)

173. Given below are two statements regarding oogenesis

Statement I:

The primary follicles get surrounded by more layers of granulosa cells, a theca and shows fluid filled cavity antrum. Now it is called secondary follicle.

Statement II:

Graafian follicle ruptures to release the secondary oocyte from the ovary by the process called ovulation. In the light of the above statements, choose the correct answer from the options given below:

- (1) Statement I is correct but Statement II is false
- (2) Statement I is incorrect but Statement II is true
- (3) Both Statement I and Statement II are true
- (4) Both Statement I and Statement II are false

Ans. (2)

174. If there are 250 snails in a pond, and within a year their number increases to 2500 by reproduction. What should be their birth rate per snail per year?

(1) 10

(2)9

(3)25

(4) 15

(2)Ans.

175. Given below are two statements:

Statement I:

The nose contains mucus-coated receptors which are specialised for receiving the sense of smell and are called olfactory receptors.

Statement II:

Wall of the eye ball has three layers. The external layer is called choroid (dense connective tissue), middle layer is sclera (thin pigmented layer) and internal layer is retina (ganglion cells, bipolar cells and photoreceptor cells).

In the light of the above statements, choose the correct answer from the options given below:

- (1) Statement I is true but Statement II is false
- (2) Statement I is false but Statement II is true
- (3) Both Statement I and Statement II are true
- (4) Both Statement I and Statement II are false

(1) Ans.

176. Which one of the following acts as an inducer for lac operon?

(1) Sucrose

(2) Lactose

(3) Glucose

(4) Galactose

(2) Ans.

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177. Match List-I with List - II.

(A) Deforestation

List-I

- (I) Responsible for heating of Earth's surface and atmosphere
- (B) Reforestation (II) Conversion of forested areas to non-forested areas

List-II

- (C) Green-house effect (III) Natural ageing of lake by nutrient enrichment of its water
- (D) Eutrophication (IV) Process of restoring a forest that once existed but was removed

Choose the correct answer from the options given below:

- (1) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (2) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (3) (A)-(III), (B)-(1), (C)-(II), (D)-(IV)
- (4) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)

Ans. (4)

- 178. Diacetyl morphine is also called as:
 - (1) Amphetamine
- (2) Barbiturate
- (3) Crack
- (4) Smack

(4) Ans.

- 179. 'X' and 'Y' are the components of Binomial nomenclature. This naming system was proposed by 'Z':
 - (1) X-Generic name, Y-Specific epithet, Z-Carolus Linnaeus
 - (2) X-Specific epithet, Y-Generic name, Z-R Whittaker
 - (3) X-Specific epithet, Y Generic name, Z-Carolus Linnaeus
 - (4) X-Generic name, Y-Specific epithet, Z-R.H Whittaker

(1) Ans.

- 180. Which of the following statements are correct?
 - (A Reproductive health refers to total well-being in all aspects of reproduction.
 - (B) Amniocentesis is legally banned for sex determination in India.
 - (C) "Saheli" a new oral contraceptive for females was developed in collaboration with ICMR (New Delhi).
 - (D) Amniocentesis is used to determine genetic disorders and survivability of foetus.

Choose the most appropriate answer from the options given below:

(1) (B) and (C) only

(2) (D) and (C) only

(3) (A), (B) and (D) only

(4) (A) and (C) only

(3)Ans.

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Match List-I with List-II 181.

> List-I List-II

(A) Terpenoides (I) Codeine

(B) Lectins (II) Diterpenes (C) Alkaloids (III) Ricin

(D) Toxins (IV) Concanavalin A

Choose the correct answer from the options below:

(1) (A)-(II), (B)-(IV), (C)-(III), (D)-(I) (2) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)

(4) (A)-(II), (B)-(IV), (C)-(I), (D)-(III) (3) (A)-(II), (B)-(\overline{III}), (C)-(I), (D)-(IV)

(4) Ans.

182. Given below are two statements:

Statement I: In bacteria, the mesosomes are formed by the extensions of plasma membrane

Statement II: The mesosomes, in bacteria, help in DNA replication and cell wall formation.

In the light of the above statements, choose the most appropriate answer from the options given below.

- (1) Statement I is correct but Statement II is incorrect
- (2) Statement I is incorrect but Statement II correct
- (3) Both Statement I and Statement II are correct
- (4) Both Statement I and Statement II are incorrect

(3)Ans.

Select correct sequence of substages of Prophase-I of Meiotic division: 183.

(A) Zygotene

(B) Pachytene

(C) Diakinesis

(D) Leptotene

(E) Diplotene

Choose the correct answer from the options given below:

(1) (D), (B), (A), (E), (C)

(2) (A), (B), (D), (E), (C)

(3) (D), (A), (B), (E), (C)

(4) (A), (D), (B), (C), (E)

Ans. (3)

184. Brainstem of human brain consists of:

- (1) Mid-brain, Pons and Medulla Oblongata
- (2) Forebrain, Cerebellum and Pons
- (3) Thalamus, Hypothalamus and Corpora quadrigemina
- (4) Amygdala, Hippocampus and Corpus Callosum

Ans. (1)

185. Identify the fossil of man who showed the following characteristics.

- (A) Brain capacity of 1400 cc
- (B) Used hides to protect their body
- (C) Buried their dead bodies

In the light of above statements, choose the correct answer from the options given below:

(1) Homo erectus

(2) Neanderthal man

(3) Homo habilis

(4) Australopithecus

Ans. (2)

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Section B (Biology: Zoology)

- 186. With reference to Hershey and Chase experiments. Select the correct statements.
 - (A) Viruses grown in the presence of radioactive phosphorus contained radioactive DNA.
 - (B) Viruses grown on radioactive sulphur contained radioactive proteins.
 - (C) Viruses grown on radioactive phosphorus contained radioactive protein.
 - (D) Viruses grown on radioactive sulphur contained radioactive DNA.
 - (E) Viruses grown on radioactive protein contained radioactive DNA.

Choose the most appropriate answer from the options given below:

- (1) (D) and (E) only
- (2) (A) and (B) only
- (3) (A) and (C) only
- (4) (B) and (D) only

Ans. (2)

- Select the correct sequential steps regarding absorption of fatty acids and glycerol, in intestine. 187.
 - (A) Micelles are reformed into small protein coated fat globules called chylomicrons.
 - (B) Micelles move into intestinal mucosa.
 - (C) Fatty acids and glycerol are incorporated into small droplets called micelles.
 - (D) Lacteals release the absorbed substances into blood stream
 - (E) Chylomicrons are transported into lacteals

Choose the correct answer from the options given below:

(1) (A), (E), (B), (D), (C)

(2) (D), (E), (B), (C), (A)

(3) (C), (B), (A), (E), (D)

(4) (B), (C), (E), (A), (D)

Ans. (3)

- 188. Given below are two statements: one is labelled as
 - Assertion (A) and the other is labelled as Reason (R).

Assertion (A):

A person goes to high altitude and experiences "Altitude Sickness" with symptoms like breathing difficulty and heart palpitations.

Reason (R):

Due to low atmospheric pressure at high altitude, the body does not get sufficient oxygen.

In the light of the above statements, choose the correct answer from the options given below:

- (1) (A) is true but (R) is false
- (2) (A) is false but (R) is true
- (3) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (4) Both (A) and (R) are true but (R) is not correct explanation of (A)

Ans.

- 189. The salient features of genetic code are:
 - (A) The code is palindromic

- (B) UGA act as initiator codon
- (C) The code is unambiguous and specific
- (D) The code is nearly universal

Choose the most appropriate answer from the options given below:

- (1) (A) and (D) only
- (2) (B) and (C) only
- (3) (A) and (B) only
- (4) (C) and (D) only

(4) Ans.

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190. Arrange the events of Renin - Angiotensin mechanism in correct sequence.

- (A) Activation of JG cells and release of renin.
- (B) Angiotensin II activates release of aldosterone
- (C) Fall in glomerular blood pressure.
- (D) Reabsorption of Na+ and water from distal convoluted tubule.
- (E) Angiotensinogen is converted to Angiotensin I and then to Angiotensin II.

Choose the correct answer from the options given below:

(1) (C), (A), (E), (B), (D)

(2) (A), (D), (E), (C), (B)

(3) (A), (D), (C), (B), (E)

(4) (B), (A), (E), (D), (C)

Ans. (1)

- Select the correct statements regarding dissolved Oxygen and Biochemical Oxygen Demand. 191.
 - (A) BOD is inversely related to dissolved oxygen.
 - (B) Low dissolved oxygen and high BOD lead to loss of aquatic life.
 - (C) High BOD leads to high dissolved oxygen.
 - (D) Both BOD and dissolved oxygen indicator are of health of a water body
 - (E) Both BOD and dissolved oxygen are affected by amount of organic matter in the water body. Choose the most appropriate answer from the options given below:
 - (1) (A), (B), (C), (E) only

(2) (A), (B), (D), (E) only

(3) (A), (B), (C), (D) only

(4) (B), (C), (D), (E) only

(2) Ans.

- 192. Given below are two statements:
 - Statement I:

Parathyroid hormone acts on bones and stimulates the process of bone resorption.

Statement II:

Parathyroid hormone along with Thyrocalcitonin plays a significant role in carbohydrate metabolism. In the light of the above statements, choose the correct answer from the options given below:

- (1) Statement I is correct but Statement II is false
- (2) Statement I is incorrect but Statement II is true
- (3) Both Statement I and Statement II are true
- (4) Both Statement I and Statement II are false

Ans. (1)

- 193. Select the correct statements:
 - (A) Platyhelminthes are triploblastic, pseudocoelomate and bilaterally symmetrical organisms.
 - (B) Ctenophores reproduce only sexually and fertilization is external
 - (C) In tapeworm, fertilization is internal but sexes are not separate.
 - (D) Ctenophores are exclusively marine diploblastic and bioluminescent organisms
 - (E) In sponges, fertilization is external and development is direct.

Choose the correct answer from the options give below:

(1) (A), (C) and (D) only

(2) (B), (C) and (D) only

(3) (A) and (E) only

(4) (B) and (D) only

Ans. (2)

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194. Match List-II with List-II.

List-II

(A) Gene therapy (I) Separation of DNA fragments

(B) RNA interference (II) Diagnostic test for AIDS

(C) ELISA (III) Cellular defence

(D) Gel Electrophoresis (IV) Allows correction of a gene defect

Choose the correct answer from the options given below:

(1) (A)-(IV), (B)-(I), (C)-(II), (D)-(III) (2) (A)-(IV), (B)-(II), (C)-(III), (D)-(I)

(3) (A)-(IV), (B)-(III), (C)-(I), (D)-(I) (4) (A)-(IV), (B)-(III), (C)-(1), (D)-(II)

Ans. (3)

195. Which of the following statements are correct with respect of Golgi apparatus?

- (A) It is the important site of formation of glycoprotein and glycolipids.
- (B) It produces cellular energy in the form of ATP
- (C) It modifies the protein synthesized by ribosomes on ER.
- (D) It facilitates the transport of ions.
- (E) It provides mechanical support.

Choose the most appropriate answer from the options given below:

(1) (B) and (C) only

(2) (A) and (C) only

(3) (A) and (D) only

(4) (D) and (E) only

Ans. (2)

196. Select the incorrect statement with respect to Multiple Ovulation Embryo Transfer (MOET) Technology.

- (1) Fertilised eggs at 4 to 6 cells stages are recovered non-surgically from super-ovulating cow and transferred to surrogate mother.
- (2) It is used to increase herd size in a short time.
- (3) Cow is administered with hormones to induce super-ovulation.
- (4) Super-ovulating cow is either mated with elite bull or is artificially inseminated.

Ans. (1)

197. Given below are two statements:

Statement I:

In cockroach, the forewings are transparent and prothoracic in origin.

Statement II:

In cockroach, the hind wings are opaque, leathery and mesothoracic in origin.

In the light of the above statements, choose the correct answer from the options given below:

- (1) Statement I is correct but Statement II is false
- (2) Statement I is incorrect but Statement II is true
- (3) Both Statement I and Statement II are true
- (4) Both Statement I and Statement II are false

Ans. (4)

Resonance Eduventures Ltd.

Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005 **Ph. No.:** +91-744-2777777, 2777700 **| FAX No.:** +91-022-39167222

To Know more: sms RESO at 56677 | Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in | CIN: U80302RJ2007PLC024029



198. Match List-I with List-II.

> List-I List-II

(A) Columnar epithelium (I) Ducts of glands

(B) Ciliated epithelium (II) Inner lining of stomach and intestine

(C) Squamous epithelium (III) Inner lining of bronchioles

(D) Cuboidal epithelium (IV) Endothelium

Choose the correct answer from the options given below:

(1) (A)-(III), (B)-(II), (C) -(I), (D)-(IV) (2) (A)-(III), (B)-(II), (C)-(IV), (D)-(I)

(3) (A)-(II), (B)-(III), (C)-(I), (D)-(IV) (4) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

Ans. (4)

Match List-I with List-II. 199.

> List-I List-II

(A) Cytokine barriers (I) Mucus coating of respiratory tract

(B) Cellular barriers (II) Interferons

(C) Physiological barriers (III) Neutrophils and Macrophages

(D) Physical barriers (IV) Tears and Saliva

Choose the correct answer from the options given below:

(2) (A)-(III), (B)-(I), (C)-(IV), (D)-(II) (1) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

(3) (A)-(III), (B)-(I), (C)-(II), (D)-(IV) (4) (A)- (II), (B)-(III), (C)-(I), (D)- (IV)

(1) Ans.

200. Select the correct statement/s with respect to mechanism of sex determination in Grasshopper.

(A) It is an example of female heterogamety.

(B) Male produces two different types of gametes either with or without X chromosome.

(C) Total number of chromosomes (autosomes and sex chromosomes) is same in both males and females.

(D) All eggs bear an additional X chromosome besides the autosomes.

Choose the correct answer from the options given below:

(1) (B) and (D) only (2) (A), (C) and (D) only

(3) (A) only (4) (A) and (C) only

Ans. (1)

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To Know more: sms RESO at 56677 | Website: www.resonance.ac.in | E-mail: contact@resonance.ac.in | CIN: U80302RJ2007PLC024029 Toll Free : 1800 258 5555 🔘 7340010333 🚹 facebook.com/ResonanceEdu 💟 twitter.com/ResonanceEdu 🔠 www.youtube.com/resowatch 🕒 blog.resonance.ac.in