- 101. In the equation GPP R = NPP R represents:
 - (1) Radiant energy

(4)

- (2) Retardation factor
- (3) Environment factor
- (4) Respiration losses
- 102. Inspite of interspecific competition in nature, which mechanism the competing species might have evolved for their survival?
 - (f) Resource partitioning
 - (2) Competitive release
 - (3) Mutualism
 - (4) Predation
- 103. Amensalism can be represented as:
 - Species A (-); Species B (0)
 - (2) Species A(+); Species B(+)
 - (3) Species A(-); Species B(-)
 - (4) Species A (+); Species B (0)

	List - I		List - II
(a)	Cells with active cell division capacity	(i)	Vascular tissues
(b)	Tissue having all cells similar in structure and function	(ii)	Meristematic tissue
(c)	Tissue having different types of cells	(iii)	Sclereids
200	Dead cells with highly thickened walls and narrow lumen	(iv)	Simple tissue

Select the **correct** answer from the options given below.

	(a)	(b)	(c)	(d)
(1)	(ii)	(iv)	(i)	(iii)
(2)	(iv)	(iii)	(ii)	(i)
(3)	(i)	(ii)	(iii)	(iv)
(4)	(iii)	(ii)	(iv)	(i)

105. The production of gametes by the parents, formation of zygotes, the F_1 and F_2 plants, can be understood from a diagram called:

- (1) Bullet square
- (2) Punch square
- (2) Punnett square
 - (4) Net square

106. DNA strands on a gel stained with ethidium bromide when viewed under UV radiation, appear as:

- (1) Yellow bands
- Bright orange bands
 - (3) Dark red bands
 - (4) Bright blue bands

107. Gemmae are present in:

- (1) Mosses
- (2) Pteridophytes
- (3) Some Gymnosperms
- (4) Some Liverworts

108. Plants follow different pathways in response to environment or phases of life to form different kinds of structures. This ability is called:

- (1) Elasticity
- (2) Flexibility
- (8) Plasticity
 - (4) Maturity

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16

109. Which of the following is an incorrect statement?

- Mature sieve tube elements possess a conspicuous nucleus and usual cytoplasmic organelles.
- (2) Microbodies are present both in plant and animal cells.
- (3) The perinuclear space forms a barrier between the materials present inside the nucleus and that of the cytoplasm.
- (4) Nuclear pores act as passages for proteins and RNA molecules in both directions between nucleus and cytoplasm.

110. A typical angiosperm embryo sac at maturity is:

- (1) 8-nucleate and 7-celled
- (2) 7-nucleate and 8-celled
- (3) 7-nucleate and 7-celled
- (4) 8-nucleate and 8-celled

111. The plant hormone used to destroy weeds in a field is:

- (1) IAA
- (2) NAA
- (3) 2, 4-D
- (4) IBA

112. Which of the following algae produce Carrageen?

- (1) Green algae
- (2) Brown algae
- (3) Red algae
 - (4) Blue-green algae

113. Mutations in plant cells can be induced by:

- (1) Kinetin
- (2) Infrared rays
- (8) Gamma rays
 - (4) Zeatin

114. Match List - I with List - II

8	List - I	100	Time III
(a)	Protoplast fusion	(G)	List - II
(b)	Plant tissue culture		Totipotency
(c)	Meristem culture		Pomato
(d)	Micronwa		Somaclones
CIL	recropropagation	(iv)	Virus free plants

Choose the correct answer from the options given below.

(1)	(a)	(b)	(c)	(d)
(1)	(iii)	(iv)	(ii)	(i)
(3)	(ii)	(i)	(iv)	(iii)
(4)	(iii)	(iv)	(i)	(ii)
	(iv)	(iii)	(ii)	(i)

18 M4 134. 128. Diadelphous stamens are found in: China rose (1) Citrus (2) (8) Pea China rose and citrus (4) 129. Which of the following are not secondary metabolites in plants? 135. Morphine, codeine (1) Amino acids, glucose PET Vinblastin, curcumin (3) Rubber, gums (4) Match List - I with List - II. 130. List - I List - II Primary constriction in (a) Cristae (i) chromosome 136. Disc-shaped sacs in (b) Thylakoids Golgi apparatus Infoldings in Centromere (iii) mitochondria Flattened membranous (d) Cisternae (iv) sacs in stroma of plastids Choose the correct answer from the options given below. (a) (b) (c) (d) (1)(iv) (iii) (ii) (i) (2) (i) (iv) (iii) (ii) (iii) (iv) (i) (ii) (4) (ii) (iii) (iv) (i) 131. When gene targetting involving gene amplification is attempted in an individual's tissue to treat disease, it is known as: Biopiracy (1) Gene therapy (3) Molecular diagnosis (4) Safety testing 132. The term used for transfer of pollen grains from anthers of one plant to stigma of a different plant which, during pollination, brings genetically different types of pollen grains to stigma, is: Xenogamy (2) Geitonogamy Chasmogamy (3) (4) Cleistogamy Which of the following is a correct sequence of steps in a PCR (Polymerase Chain Reaction)?

Denaturation, Annealing, Extension Denaturation, Extension, Annealing

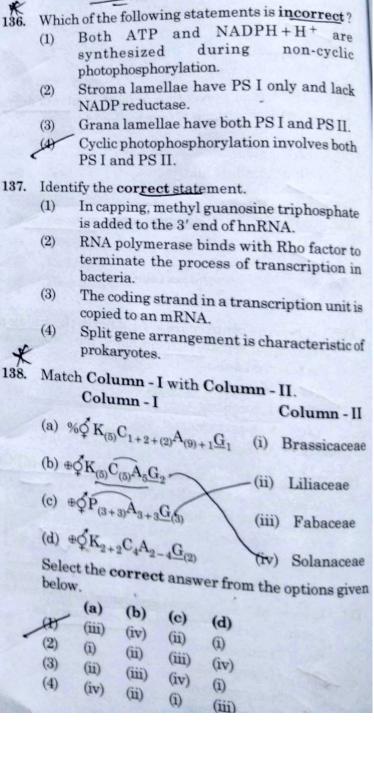
Extension, Denaturation, Annealing

Annealing, Denaturation, Extension

(2)

(3)

(4)



The amount of nutrients, such as carbon, nitrogen

The amount of decision present in the soil at any

The first stable product of CO2 fixation in sorghum

given time, is referred as:

Standing state

Standing crop

Pyruvic acid

Succinic acid

Oxaloacetic acid

Phosphoglyceric acid

Section - B (Biology : Botany)

Climax community

Climax

(1)

(2)

(8)

(4)

is:

(1)

(2)

(3)

(4)

Select the correct pair.

Large colorless empty - Subsidiary cells cells in the epidermis (1) of grass leaves

In dicot leaves, vascular - Conjunctive bundles are surrounded tissue by large thick-walled cells

Cells of medullary rays - Interfascicular that form part of cambium cambial ring

Loose parenchyma cells - Spongy rupturing the epidermis parenchyma and forming a lensshaped opening in bark

140. In the exponential growth equation

 $N_t = N_o e^{rt}$, e represents: The base of number logarithms

The base of exponential logarithms

The base of natural logarithms (3)

The base of geometric logarithms (4)

What is the role of RNA polymerase III in the process of transcription in eukaryotes?

Transcribes rRNAs (28S, 18S and 5.8S)

- Transcribes tRNA, 5s rRNA and snRNA (2)
- Transcribes precursor of mRNA
- (4) Transcribes only snRNAs

Plasmid pBR322 has PstI restriction enzyme site within gene ampR that confers ampicillin resistance. If this enzyme is used for inserting a gene for β-galactoside production and the recombinant plasmid is inserted in an E.coli strain

it will not be able to confer ampicillin resistance to the host cell.

the transformed cells will have the ability to resist ampicillin as well as produce β-galactoside.

it will lead to lysis of host cell.

(4) it will be able to produce a novel protein with dual ability.

List - I			List - II
(a)	S phase	(i)	Proteins are synthesized
(b)	G ₂ phase	(ii)	Inactive phase
(c)	Quiescent stage	(iii)	Interval between mitosis and initiation of DNA replication

Choose the correct answer from the options given below.

DNA replication

	(a)	(b)	(c)	(d)
(1)	(iii)	(ii)	(i)	(iv)
(2)	(iv)	(ii)	(iii)	(i)
(3)	(iv)	(i)	(ii)	(iii)
(4)	(ii)	(iv)	(iii)	(i)

(d) G1 phase

Match List - I with List - II

Which of the following statements is correct?

- Fusion of two cells is called Karyogamy. (1)
- Fusion of protoplasms between two motile on non-motile gametes is called plasmogamy.
 - Organisms that depend on living plants are (3)called saprophytes.
 - Some of the organisms can fix atmospheric nitrogen in specialized cells called sheath cells.

Which of the following statements is incorrect? 145.

- During aerobic respiration, role of oxygen is limited to the terminal stage.
- (2)In ETC (Electron Transport Chain), one molecule of NADH+H+ gives rise to 2 ATP molecules, and one FADH, gives rise to 3 ATP molecules.
- ATP is synthesized through complex V. (3)
- (4) Oxidation-reduction reactions produce proton gradient in respiration.

In some members of which of the following pairs of families, pollen grains retain their viability for months after release?

> Poaceae; Rosaceae (1)

(2) Poaceae; Leguminosae

Poaceae; Solanaceae (3)

Rosaceae; Leguminosae

. Match Column - I with Column - II.

	Column - I		Column - II
(a)	Nitrococcus	(i)	Denitrification
(b)	Rhizobium	di	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 answer from options given below.

	(a)	(b)	(c)	(d)
(1)	(ii)	(iv)	(i)	(iii
(2)	(i)	(ii)	(iii)	(iv)
(3)	(iii)	(i)	(iv)	(ii)
(4)	(iv)	(iii)	(ii)	(i)

148. Now a days it is possible to detect the <u>mutated</u> gene causing cancer by allowing radioactive probe to hybridise its complimentary DNA in a clone of cells, followed by its detection using autoradiography because:

(1) mutated gene partially appears on a photographic film.

(2) mutated gene completely and clearly appears on a photographic film.

(3) mutated gene does not appear on a photographic film as the probe has no complimentarity with it.

(4) mutated gene does not appear on photographic film as the probe has complimentarity with it.

149. DNA fingerprinting involves identifying differences in some specific regions in DNA sequence, called

(1)	Satellite DNA
(2)	Repetitive DNA
100	CHI.

Single nucleotides

4) Polymorphic DNA

150. Match List - I with List - II

	List - I		List - II	
(a)	Protein •	(i)	C=C double bonds	
(b)	Unsaturated fatty acid	(ii)	Phosphodiester bonds	
(c)	Nucleic acid	(iii)	Glycosidic bonds	
(d)	Polysaccharide	(iva)	Pentide bonds	

Choose the correct answer from the options given below.

petov	٧.			
4	(a)	(b)	(c)	(d)
(2)	(iv)	(i)	(ii)	(iii)
(3)	(i)	(iv)	(iii)	(ii)
(4)	(ii) (iv)	(i)	(iv)	(iii)
	(11)	(iii)	(i)	(ii)

Section - A (Biology : Zoology)

151.	Which one of the following organisms bears hollow and pneumatic long bones?
	and phedmass

(I) Neophron

(2) Hemidactylus

(3) Macropus

(4) Ornithorhynchus

152. Chronic auto immune disorder affecting neuro muscular junction leading to fatigue, weakening and paralysis of skeletal muscle is called as:

(1) Arthritis

(2) Muscular dystrophy

Myasthenia gravis

(4) Gout

153. Which one of the following is an example of Hormone releasing IUD?

(1) CuT (2) LNG 20 (3) Cu 7

(4) Multiload 375

154. Which of the following characteristics is incorrect with respect to cockroach?

A ring of gastric caeca is present at the junction of midgut and hind gut.

(2) Hypopharynx lies within the cavity enclosed by the mouth parts.

(3) In females, 7th-9th sterna together form a genital pouch.

(4) 10th abdominal segment in both sexes, bears a pair of anal cerci.

155. Select the favourable conditions required for the formation of oxyhaemoglobin at the alveoli.

High pO₂, low pCO₂, less H⁺, lower temperature

(2) Low pO₂, high pCO₂, more H⁺, higher temperature

(3) High pO₂, high pCO₂, less H⁺, higher temperature

(4) Low pO₂, low pCO₂, more H⁺, higher temperature

156. Sphincter of oddi is present at:

(1) Ileo-caecal junction

Junction of hepato-pancreatic duct and duodenum

(3) Gastro-oesophageal junction

(4) Junction of jejunum and duodenum

- 157. The organelles that are included in the endomembrane system are:
 - Endoplasmic reticulum, Mitochondria, Ribosomes and Lysosomes
 - Endoplasmic reticulum, Golgi complex, Lysosomes and Vacuoles
 - (3)Golgi complex, Mitochondria, Ribosomes and Lysosomes
 - (4) Golgi complex, Endoplasmic reticulum, Mitochondria and Lysosomes
- Match List I with List II. 158.

	List - I		List - II
(a)	Metamerism	(1)	Coelenterata
(b)	Canal system	(ii)	Ctenophora
(c)	Comb plates	(iii)	Annelida
(d)	Cnidoblasts	(iv)	Porifera

Choose the correct answer from the options given below.

- (d) (c) (b) (a)
- (ii) (i) (1) (iv) (iii)
- (2) (i) (ii) (iii) (iv)
- (ii) (i) (iii) (iv) (4) (iv) (i) (ii) (iii)
- A specific recognition sequence identified by endonucleases to make cuts at specific positions within the DNA is:
 - Degenerate primer sequence (1)
 - Okazaki sequences (2)
 - Palindromic Nucleotide sequences
 - Poly(A) tail sequences
- Which of the following RNAs is not required for the synthesis of protein?
 - mRNA (1)
 - tRNA (2)
 - rRNA (3)
 - siRNA (4)
- The partial pressures (in mm Hg) of oxygen (O2) and carbon dioxide (CO2) at alveoli (the site of diffusion) are:
 - $pO_9 = 104 \text{ and } pCO_2 = 40$ (1)
 - $pO_2 = 40 \text{ and } pCO_2 = 45$
 - $pO_2 = 95$ and $pCO_2 = 40$ (3)
 - $pO_2 = 159$ and $pCO_2 = 0.3$

- Which of the following statements wrongly 162. represents the nature of smooth muscle
 - These muscle have no striations
 - They are involuntary muscles (2)
 - Communication among the cells is performed by intercalated discs
 - These muscles are present in the wall of (4) blood vessels
- Match the following: 163.

	List - I	List - II		
(a)	Physalia	(i)	Pearl oyster	
(b)	Limulus	(ii)	Portuguese Man of War	
(c)	Ancylostoma	(iii)	Living fossil	
(d)	Pinctada	(iv)	Hookworm	

Choose the correct answer from the options given below.

- (b) (c) (d) (a)
- (i) (ii) (iii) (iv) (1)
- (iii) (ii) (2) (i) (iv)
- (iii) (iv) (i) (ii)
- (ii) (iii) (4) (iv)
- Succus entericus is referred to as:
 - Pancreatic juice (1)
 - Intestinal juice (2)
 - Gastric juice (3)
 - (4) Chyme
- Which of the following is not an objective of Biofortification in crops?
 - Improve protein content -(1)
 - (2) Improve resistance to diseases
 - Improve vitamin content (3)
 - Improve micronutrient and mineral content (4)
- Veneral diseases can spread through: 166.
 - Using sterile needles (a)
 - Transfusion of blood from infected person (b)
 - Infected mother to foetus (c)
 - Kissing (d)
 - Inheritance

Choose the correct answer from the options given below.

- (a), (b) and (c) only (1)
- (b), (c) and (d) only (2)
- (b) and (c) only (3)
- (a) and (c) only (4)

		22	
		tions.	1
M4	******	regard to insulin choose correct options.	
167.		C-peptide is not present in mature insulin. The insulin produced by rDNA technology	
-	(0)	The insulin produce	
	100	has C-pepulae.	
	Ler	The pro-insulin has tide of insulin are	
	SON	A-peptide and B-peptide bridges.	
	-	interconnected by distribute of the correct answer from the options given see the correct answer from the options given	
	Choo	se the correct	
	(1)	(b) and (d) only	
	(2)	(b) and (c) only	
		(a), (c) and (d) only	
	(4)	(a) and (d) only	
		ruit fly has 8 chromosomes (2n) in each cell.	
168.			
	Luna	nosomes at (t. phase is o, what would	
	numb	er of chromosomes after S phase?	
	er	8	
-	(2)	16	
	(3)	4	
	(4)	32	
69.	Which	is the "Only enzyme" that has "Capability"	
	tocata	alyse Initiation, Elongation and Termination	١
		process of transcription in prokaryotes?	١
	(1)	DNA dependent DNA polymerase	١
	(2)	DNA dependent RNA polymerase	۱
	(3)	DNA Ligase	١
	(4)	DNase	١
70.	In a	cross between a male and female, both	١
-	heter	ozygous for sickle cell anaemia gene, what	1
	perce	ntage of the progeny will be diseased?	
,	45	50%	į
	(2)	75%	
	(3)	25%	
	(4)	100%	
71.		effective treatment of the disease, early	
	ie ve	osis and understanding its pathophysiology ry important. Which of the following	
		cular diagnostic techniques is very useful for	
		detection?	
	(1)	Western Blotting Technique	
	(2)	Southern Blotting Technique	
	F-08-01	ELISA Technique	
1	(3)	Hybridization Technique	
	•		
72.	Whic	ch stage of meiotic prophase shows	
	termi	inalisation of chiasmata as its distinctive	
	featu	re?	
	(1)	Leptotene	
	(2)	Zygotene	
	(8)	Diakinesis	

Pachytene

22			1.1	following s	tatement	S.	
1	173.		d the	tagenesis	sobserve	ed in Helminths.	
1		(a)	FC	hinoderms	are triplo	blastic and coelomate	
		(b)	an	imals.		rgan-system level	
1		(c)	Ro	und worm	s have o	rgan-system level of	
		(C)	bo	dy organiza	mocent i	n ctenophores help in	
		(d)	Co	omb plates	present		
1			di	gestion.	lar syste	m is characteristic of	1
		(e)	W	chinoderms	3.		
		~		he correct	answer	from the options given	
		Ch	ow.	ille c		waat ∼	100
		(1)	(0	e), (d) and (e	e) are cor	rect ~	
		(2)					1
		(3)		1 (d) and (e) are con		
f		14	1 0	(c) and (e) are con		
9		1			Tod to n	neasure thickness of:	
	174	. Do	bson	units are	asea to h		1
P		(1)		CFCs			
1		(2)		Stratospher	е		
1	200	(8)		Ozone			
4		(4)) 7	Tropospher	е		
,,	1.77	- D	inc	the proce	ss of ge	ne amplification using	1
n	17	p. D	CR i	f very high	tempera	ature is not maintained	
11		127	that	peginning.	then will	CII OI CIIC IOLIC	
		of	PCR	will be att	ected fir	st?	
		(1		Annealing			
		(2	1	Extension			
		-4	*	Denaturat	ion		
,	1	(4	1)	Ligation			
h	17	e I	donti	fy the inco	rrect n	air	
at	11	0. 1	aenu	Alkaloids	Tecep	Codeine	
		1	2)			Abrin	
			2)	Toxin			
			3)	Lectins		Concanavalin A	
		1	4	Drugs		Ricin	
	11	77.	Pere	ne with	AR' blo	od group are called a	0
ly						This is due to:	-
gy		,	(1)				
ng		4	(1)	of RBCs	n antige	ns A and B on the surface	e
		~	(2)				
		d		Absence	orantige	ens A and B in plasma	
		V	(3)	Presence	of antil	oodies, anti-A and anti-	В,
			-	on RBCs			
		/	(A)	Absence	of antibo	odies, anti-A and anti-B,	in
		-		plasma			
W	1	178.	Wh:	ch one of	he 6-11		il.
ive	,		Mus	cidae?	ne follov	wing belongs to the fam	ПУ
						-	
			(1)	Fire fly			
			(2)	Grassho	-		
			(3)	Cockros	ich		
			SAY	House f	lv		

179. The centriole undergoes duplication during:

(1) S-phase

- (2) Prophase
- (3) Metaphase
- (4) G₂ phase

180. Receptors for sperm binding in mammals are present on:

- (1) Corona radiata
- (2) Vitelline membrane
 - (3) Perivitelline space
 - (4) Zona pellucida

181. Which enzyme is responsible for the conversion of inactive fibringens to fibrins?

(Thrombin

- (2) Renin
- (3) Epinephrine

Thrombokinase

182. Match List - I with List - II.

	List - I		List - II
(a)	Aspergillus niger	(i)	Acetic Acid
(b)	Acetobacter aceti	(ii)	Lactic Acid
(c)	Clostridium butylicum	(iii)	Citric Acid
(d)	Lactobacillus	(iv)	Butyric Acid

Choose the correct answer from the options given below.

- (a) (b)
- (c)

(d)

- (1)
- (iii) (i)
- (iv) (ii)
- (2)
- (ii)
- (iii) (iv)
- (3)
- (iii)
- (i) (iv)
- (4) (iv)

(i)

(ii)

- (ii)
- (i) (iii)

183. Erythropoietin hormone which stimulates R.B.C. formation is produced by:

- (1) Alpha cells of pancreas
- (2) The cells of rostral adenohypophysis
- (3) The cells of bone marrow

Juxtaglomerular cells of the kidney

184. Match List - I with List - II

	List - I		List - II			
(a)	Vaults	(i)	Entry of sperm through Cervix is blocked			
(b)	IUDs	(ii)	Removal of Vas deferens			
(c)	Vasectomy	(iii)	Phagocytosis of sperms within the Uterus			
(d)	Tubectomy	(iv)	Removal of fallopian tube			

Choose the correct answer from the options given below.

- (a) (b) (c) (d)
- (1) (iv) (ii) (i) (iii)
- (2) (i) (iii) (ii) (iv) (3) (ii) (iv) (iii) (i)
- (3) (ii) (iv) (iii) (i) (4) (iii) (i) (iv) (ii)

185. If Adenine makes 30% of the DNA molecule, what will be the percentage of Thymine, Guanine and Cytosine in it?

- T:20;G:30;C:20
- A+7=9+0
- (2) T: 20; G: 20; C: 30

T:30;G:20;C:20

- 30+20=
- (4) T: 20; G: 25; C: 25

Section - B (Biology : Zoology)

186. Which of the following secretes the hormone, relaxin, during the later phase of pregnancy?

- (1) Graafian follicle
- (2) Corpus luteum
- (3) Foetus

(3)

(4) Uterus

187. Identify the types of cell junctions that help to stop the leakage of the substances across a tissue and facilitation of communication with neighbouring cells via rapid transfer of ions and molecules.

- (1) Gap junctions and Adhering junctions, respectively.
- Tight junctions and Gap junctions, respectively.
- (3) Adhering junctions and Tight junctions, respectively.
- (4) Adhering junctions and Gap junctions, respectively.

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M4

188. Which one of the following statements about Histones is wrong?

X

(1) Histones are organized to form a unit of 8 molecules.

125

The pH of histones is slightly acidic.

- (3) Histones are rich in amino acids Lysine and Arginine.
- (4) Histones carry positive charge in the side chain.

189. Which of these is not an important component of initiation of parturition in humans?



- (1) Increase in estrogen and progesterone ratio
- (2) Synthesis of prostaglandins
- (3) Release of Oxytocin
- (A) Release of Prolactin

190. Match List - I with List - II.

	List - I		List - II
(a)	Allen's Rule	(i)	Kangaroo rat
(b)	Physiological adaptation	(ii)	Desert lizard
(c)	Behavioural adaptation	(iii)	Marine fish at depth
(d)	Biochemical	(iv)	Polar seal

Choose the **correct** answer from the options given below.

	(a)	(b)	(c)	(d)
(1)	(iv)	(ii)	(iii)	(i)
(2)	(iv)	(i)	(iii)	(ii)
100		(*)	/**	/

(8) (iv) (i) (ii) (iii) (4) (iv) (iii) (ii) (i)

191. Match List - I with List - II.

	List - I		List - II		
(a)	Filariasis	(i)	Haemophilus influenzae		
(b)	Amoebiasis	(ii)	Trichophyton		
(c)	Pneumonia	(iii)	Wuchereria bancrofti		
(d)	Ringworm	(tv)	Entamoeba histolytica		

Choose the **correct** answer from the options given below.

	An account of				
		(a)	(b)	(c)	(d)
	(1)	(iv)	(i)	(iii)	(ii)
,	(2)	(iii)	(iv)	(i)	(ii)
	(3)	(i)	(ii)	(iv)	(iii)
	(4)	(ii)	(iii)	(i)	(iv)

192. Which of the following is not a step in Multiple
Ovulation Embryo Transfer Technology
(MOET)?

A (I)

Cow is administered hormone having LH like activity for super ovulation

- (2) Cow yields about 6-8 eggs at a time
- (3) Cow is fertilized by artificial insemination
- (4) Fertilized eggs are transferred to surrogate mothers at 8-32 cell stage

193. Statement I:

The codon 'AUG' codes for methionine and phenylalanine.

Statement II:

'AAA' and 'AAG' both codons code for the amino acid lysine.

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

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

194. Match List - I with List - II.

0		List - I	List - II		
	(a)	Scapula	(i)	Cartilaginous joints	
	(b)	Cranium	(ii)	Flat bone	
	(c)	Sternum	(ili)	Fibrous joints	
	(d)	Vertebral column	(vi)	Triangular flat bone	

Choose the **correct** answer from the options given below.

	(a)	(b)	(c)	(d)
(1)	(i)	(iii)	(ii)	(iv)
(2)	(ii)	(iii)	(iv)	(i)
(3)	(iv)	(ii)	(iii)	(i)
(4)	(iv)	(iii)	(ii)	(i)

195. The Adenosine deaminase deficiency results into:

(1) Dysfunction of Immune system

(2) Parkinson's disease
(3) Digestive disorder

(4) Addison's disease

A person goes to high altitude and experiences A period 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. Both (A) and (R) are true and (R) is the correct explanation of (A)

Both (A) and (R) are true but (R) is not the (2) correct explanation of (A)

(A) is true but (R) is false (3)

(A) is false but (R) is true < (4)

Match List - I with List - II.

List - I		List - II	
(a)	Adaptive radiation	(i)	Selection of resistant varieties due to excessive use of herbicides and pesticides
(b)	Convergent evolution	(ii)	Bones of forelimbs in Man and Whale
(c)	Divergent evolution	(iii)	Wings of Butterfly and Bird
(d)	Evolution by anthropo- genic action	(iv)	Darwin Finches

Choose the correct answer from the options given below.

(a) (b) (c) (d) (iv) (iii) (ii) (i) (2)(iii) (ii) (i) (iv) (3)(ii) (i) (iv) (iii) (4) (iv) (iii) (ii)

198. Following are the statements with reference to

Lipids having only single bonds are called unsaturated fatty acids.

Lecithin is a phospholipid. (b)

Trihydroxy propane is glycerol. (c)

Palmitic acid has 20 carbon atoms including (d) carboxyl carbon.

Arachidonic acid has 16 carbon atoms.

Choose the correct answer from the options given below.

(1) (a) and (b) only

(2) (c) and (d) only

(b) and (c) only

(4) (b) and (e) only 199 During muscular contraction which of the following events occur?

(a) 'H' zone disappears

∞(b) 'A' band widens

> T' band reduces in width (c)

Myosine hydrolyzes ATP, releasing the ADP (d) and Pi

Z-lines attached to actins are pulled inwards (e)

Choose the correct answer from the options given below.

(a), (c), (d), (e) only (1)

(a), (b), (c), (d) only × (2)

(b), (c), (d), (e) only < (3)

(b), (d), (e), (a) only < (4)

Following are the statements about prostomium 200. of earthworm.

> It serves as a covering for mouth. (a)

It helps to open cracks in the soil into which (b) it can crawl.

It is one of the sensory structures. (c)

It is the first body segment.

Choose the correct answer from the options given below.

(a), (b) and (c) are correct (1)

(a), (b) and (d) are correct (2)

(a), (b), (c) and (d) are correct (3)

(b) and (c) are correct (4)

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