(Q. No. 151 to 185) which of the following statements are correct regarding female reproductive context | 153 Match List I with List II. An non-primate mammals cyclical changes during reproduction are called First menstrual cycle begins at puberty Lack of menstruation may be indicative Cyclic menstruation extends between menarche and menopause. Choose the most appropriate answer from

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

Assertion A: Amniocentesis for sex determination is one of the strategies of Reproductive and Child Health Care Programme.

Reason R: Ban on amniocentesis checks increasing menace of female foeticide.

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

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

1	widten List I with Lis	ST 11.				
ı	List I		List II			
ı	(Interacting		(Name of			
1	species)		Interaction)			
ı	A. A Leopard and a	I.	Competition			
	Lion in a forest/					
	grassland					
	B. A Cuckoo laying	II.	Brood			
	egg in a Crow's nest		parasitism			
	C. Fungi and root of a	III.				
	higher plant in					
	Mycorrtizae					
	D. A cattle egret and	IV.	Commensalism			
	a Cattle in a field					
	Choose the correct answer from the options					
	given below:					
	(1) A-I, B-II, C-IV, I	D-III				
	(2) A-III, B-IV, C-I,	D-II				
	(3) A-II, B-III, C-I, I	D-IV				
	A-I, B-II, C-III, I	D-IV				
	154 Vital capacity of lung	ie				
	(1) IRV + ERV + T	V + 1	BV.			
	(2) IRV + ERV + TV - RV					
	IRV + ERV + TV					
3	(4) IRV + ERV					

155 Which one of the following common sexually transmitted diseases is completely curable when detected early and treated properly?

(1) Gonorrhoea (2) Hepatitis-B (3) HIV Infection (4 Genital herpes

156 Match List I with List II. List I List II CCK Kidney B. GIP Heart ANF -III. Gastric gland ADH IV. Pancreas Choose the correct answer from the options given below: (1) A-III, B-II, C-IV, D-I

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

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- 151 Human Reproduction-Page No. 48,49
- 152 Reproductive Health-Page No. 58
- 153 Organisms and Populations Page No. 234,235,236,237
- Breathing and exchange of gases—Page No. 272
- Reproductive Health-Page No. 63
- 156 Chemical Coordination and Integration-Page No. 333,338 Excretory Product and their Elimination-Page No. 297

157 Match List I	with	List II.
List I		List II
A. Ringworm	1.	Haemophilus influenza
B Eilariacie	'n	Trichophyton Wuchereria bancrofti
C. Malaria	Gii	Wuchereria bancrofti
C. Maiaria	11/	Plasmodium vivax
D. Pneumonia	7 V.	Plasmoatum vivax
	rect	answer from the optio
given below:		
(I) A-II, B-III	. C-	L D-IV
A-III, B-II,	C-I	D-IV
3 A-III, B-II,	C	V D I
V-111, 15-11,	C-1	V, D-1
A-II, B-III,	C-I	V, D-1
158 Match List I w	ith I	List II.
List I		List II
A. P-wave	I.	Beginning of systole
	II.	Panalariastian 6
B. Q-wave	***	Repolarisation of ventricles
a one las	111	
C. QRS complex	111.	Depolarisation of atri-
P TP	11/	Danalariastian - C

(2) A-II, B-IV, C-I, D-III
(3) A-I, B-II, C-III, D-IV
(4) A-III, B-I, C-IV, D-II
(9) In which blood corpuscles, the HIV
undergoes replication and produces progeny

ventricles

Choose the correct answer from the options

B-lymphocytes (2) Basophils (3) Eosinophils (4) T<sub>H</sub> cells

160 Given below are two statements:

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

Statement I: Low temperature preserves the enzyme in a temporarily inactive state whereas high temperature destroys enzymatic activity because proteins are denatured by heat.

Statement II: When the inhibitor closely resembles the substrate in its molecular structure and inhibits the activity of the enzyme, it is known as competitive inhibitor. In the light of the above statements, choose the correct answer from the options given below:

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

1\_English ]

24

161 Given below are two statements: Statement 1: Ligaments are dense irregular lissue.

Statement II: Cartilage is dense regular tissue.

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

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

162 Which of the following are NOT considered as the part of endomembrane system?

A. Mitochondria B. Endoplasmic Reticulum

C. Chloroplasts D. Golgi complex

E. Peroxisomes

Choose the most appropriate answer from the options given below:

- A, G and E only
  (2) A and D only
- (3) A, D and E only
- (4) B and D only

3 Given below are two statements: Statement 1: A protein is imagined as a line, the left end represented by first amino acid (C-terminal) and the right end represented by last amino acid (N-terminal)

Statement II: Adult human haemoglobin, consists of 4 subunits (two subunits of  $\alpha$  type and two subunits of  $\beta$  type.) In the light of the above statements, choose

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

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

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- 157 Human Health And Diseases Page No. 148,149
- 158 Body Fluids And Circulation-Page No. 286
- 159 Human Health And Diseases-Page No.156
- 160 Biomolecules—Page No.158,160
- 161 Structural Organisation In animals-page No. 103,104
- 162 Cell: The Unit Of Life-Page No. 132
- 163 Biomolecules—Page No. 149,151

(2) Klinefelter's syndrome (3) Thalassemia (4) Down's syndrome (5) Which of the following statements is correct? (1) Biomagnification refers to increase in successive trophic levels, (2) Presence of large amount of nutrients in water restricts 'Algal Bloom' (3) Algal Bloom decreases fish mortality (4) Eutrophication refers to increase in domestic sewage and waste water in lakes.  (atch List 1 with List II.  List 1 List II.  Araenia I. Nephridia  B. Paramoecium II. Contractile vacuole C. Periplaneta III. Flame cells D. Pheretima IV. Urecose gland Choose the correct answer from the options give below: (4) A-I, B-II, C-IV, D-III (4) A-I, B-II, C-IV, D-III (4) A-I, B-II, C-IV, D-III (4) A-I, B-II, C-III, D-IV				
(2) Klinefelter's syndrome (3) Thalassemia (4) Down's syndrome (5) Which of the following statements is correct? (1) Biomagnification refers to increase in concentration of the toxicant at successive trophic levels. (2) Presence of large amount of nutrients in water restricts 'Algal Bloom' (3) Algal Bloom decreases fish mortality (4) Eutrophication refers to increase in domestic sewage and waste water in lakes.  Match List I with List II. List I List I List II List II List II List II Lontractile vacuole C. Periplaneta III. Flame cells D. Pheretima W. Urecose gland Choose the correct answer from the options give below: (4) A-II, B-II, C-IV, D-III (5) A-III, B-II, C-IV, D-III (6) A-II, B-II, C-III, D-IV (7) Given below are two statements:	54	Broad palm with sine		
(2) Klinefelter's syndrome (3) Thalassemia (4) Down's syndrome (5) Which of the following statements is correct? (1) Biomagnification refers to increase in concentration of the toxicant at successive trophic levels. (2) Presence of large amount of nutrients in water restricts 'Algal Bloom' (3) Algal Bloom decreases fish mortality (4) Eutrophication refers to increase in domestic sewage and waste water in lakes.  Match List I with List II. List I List I List II List II List II List II Lontractile vacuole C. Periplaneta III. Flame cells D. Pheretima W. Urecose gland Choose the correct answer from the options give below: (4) A-II, B-II, C-IV, D-III (5) A-III, B-II, C-IV, D-III (6) A-II, B-II, C-III, D-IV (7) Given below are two statements:		in a person suffering frame crease is visite		
(3) Thalassemia (3) Thalassemia (3) Thalassemia (4) Down's syndrome (5) Which of the following statements is correct? (1) Biomagnification refers to increase in successive trophic levels. (2) Presence of large amount of nutrients in water restricts 'Algal Bloom' (3) Algal Bloom decreases fish mortality (4) Eutrophication refers to increase in domestic sewage and waste water in lakes.  (atch List I with List II.  List I  Lontractile vacuole C. Periplaneta III. Flame cells D. Pheretima V. Urceose gland Choose the correct answer from the options give below: (4) A-II, B-II, C-IV, D-III (5) A-III, B-II, C-IV, D-III (4) A-I, B-II, C-III, D-IV		(1) Turner's syndrome	168	Giv
Down's syndrome  Which of the following statements is correct?  Diomagnification refers to increase in successive trophic levels.  Presence of large amount of nutrients in water restricts 'Algal Bloom'  Algal Bloom decreases fish mortality  Eutrophication refers to increase in domestic sewage and waste water in lakes.  In the List I with List II.  List I List II.  List I List II.  List I List II.  List I List II.  Araenia I. Nephridia  B. Paramoecium II. Contractile vacuole  C. Periplaneta III. Flame cells  Pheretima V. Urecose gland  Choose the correct answer from the options give below:  A-I, B-II, C-IV, D-III  A-II, B-II, C-IV, D-III  A-II, B-II, C-IV, D-III  A-II, B-II, C-IV, D-III  To More the correct answer from the options give below:  A-II, B-II, C-IV, D-III  To More the correct answer from the options give below:		(2) Nilnefeltor's		Stat
Which of the following statements is correct?  (1) Biomagnification refers to increase in successive trophic levels,  (2) Presence of large amount of nutrients in water restricts 'Algal Bloom'  (3) Algal Bloom decreases fish mortality  (4) Eutrophication refers to increase in domestic sewage and waste water in lakes.  (atch List I with List II.  List I  List II  List II  List II  List II  List II  Contractile vacuole  C. Periplaneta  JII. Flame cells  D. Pheretima  V. Urccose gland  Choose the correct answer from the options give below:  (A-I, B-II, C-IV, D-III  (A) A-II, B-II, C-IV, D-III  (A) A-II, B-II, C-IV, D-III  (A) A-II, B-II, C-IV, D-III  (B) Given below are two statements:		(A) Thalassemia		fron
successive trophic levels.  (2) Presence of large amount of nutrients in water restricts 'Algal Bloom' (3) Algal Bloom decreases fish mortality (4) Eutrophication refers to increase in domestic sewage and waste water in lakes.  Match List I with List II.  List I  List II  List II  Taenia  I. Nephridia  B. Paramoecium II. Contractile vacuole C. Periplaneta III. Flame cells D. Pheretima V. Urecose gland Choose the correct answer from the options give below: (4) A-I, B-II, C-IV, D-III (5) A-III, B-II, C-IV, D-III (6) A-II, B-II, C-IV, D-III (7) A-III, B-II, C-IV, D-III (8) A-II, B-II, C-IV, D-III (9) A-II, B-II, C-IV, D-III (10) A-II, B-II, C-IV, D-III (11) A-II, B-II, C-IV, D-III (12) A-III, B-II, C-IV, D-III (13) A-II, B-II, C-IV, D-III (14) A-I, B-II, C-IV, D-III (15) Given below are two statements:		Down's syndrome		as t
successive trophic levels.  (2) Presence of large amount of nutrients in water restricts 'Algal Bloom' (3) Algal Bloom decreases fish mortality (4) Eutrophication refers to increase in domestic sewage and waste water in lakes.  Match List I with List II.  List I  List II  List II  Taenia  I. Nephridia  B. Paramoecium II. Contractile vacuole C. Periplaneta III. Flame cells D. Pheretima V. Urecose gland Choose the correct answer from the options give below: (4) A-I, B-II, C-IV, D-III (5) A-III, B-II, C-IV, D-III (6) A-II, B-II, C-IV, D-III (7) A-III, B-II, C-IV, D-III (8) A-II, B-II, C-IV, D-III (9) A-II, B-II, C-IV, D-III (10) A-II, B-II, C-IV, D-III (11) A-II, B-II, C-IV, D-III (12) A-III, B-II, C-IV, D-III (13) A-II, B-II, C-IV, D-III (14) A-I, B-II, C-IV, D-III (15) Given below are two statements:	55	Which of the Cu		Stat
successive trophic levels.  (2) Presence of large amount of nutrients in water restricts 'Algal Bloom' (3) Algal Bloom decreases fish mortality (4) Eutrophication refers to increase in domestic sewage and waste water in lakes.  Match List I with List II.  List I  List II  List II  Taenia  I. Nephridia  B. Paramoecium II. Contractile vacuole C. Periplaneta III. Flame cells D. Pheretima V. Urecose gland Choose the correct answer from the options give below: (4) A-I, B-II, C-IV, D-III (5) A-III, B-II, C-IV, D-III (6) A-II, B-II, C-IV, D-III (7) A-III, B-II, C-IV, D-III (8) A-II, B-II, C-IV, D-III (9) A-II, B-II, C-IV, D-III (10) A-II, B-II, C-IV, D-III (11) A-II, B-II, C-IV, D-III (12) A-III, B-II, C-IV, D-III (13) A-II, B-II, C-IV, D-III (14) A-I, B-II, C-IV, D-III (15) Given below are two statements:		(1) Giomagnic statements is		calle
successive trophic levels.  2) Presence of large amount of nutrients in water restricts 'Algal Bloom'  (3) Algal Bloom decreases fish mortality  (4) Eutrophication refers to increase in domestic sewage and waste water in lakes.  (atch List I with List II.  List I  Taenia  I. Nephridia  B. Paramoecium II. Contractile vacuole  C. Periplaneta  JII. Flame cells  D. Pheretima  V. Urecose gland  Choose the correct answer from the options give below:  A.I. B-II, C-IV, D-II  (3) A-II, B-II, C-IV, D-III  (4) A-I, B-II, C-IV, D-III  (4) A-I, B-II, C-III, D-IV	þ.	concentration refers (to increase		forn
in water restricts 'Alga' Bloom'  (3) Algal Bloom decreases fish mortality (4) Eutrophication refers to increase in domestic sewage and waste water in lakes.  (a) Increase in domestic sewage and waste water in lakes.  (b) Increase in domestic sewage and waste water in lakes.  (c) Increase in domestic sewage and waste water in lakes.  (d) Increase in lakes.  (e) Increase in lakes.  (d) In	6.	successive treat of the toxicant		In ti
(3) Algal Bloom decreases fish mortality (4) Eutrophication refers to increase in domestic sewage and waste water in lakes.  Match List I with List II.  List I  List II  List II  List III.  List III.  Lontractile vacuole  C. Periplaneta III. Flame cells  D. Pheretima VV. Urecose gland  Choose the correct answer from the options give below:  (4) A-I, B-II, C-IV, D-III (4) A-I, B-II, C-IV, D-III (4) A-I, B-II, C-III, D-IV	,	(2) Presence of levels		the
(3) Algal Bloom decreases fish mortality (4) Eutrophication refers to increase in domestic sewage and waste water in lakes.  Match List I with List II.  List I  List II  List II  List III.  List III.  Lontractile vacuole  C. Periplaneta III. Flame cells  D. Pheretima VV. Urecose gland  Choose the correct answer from the options give below:  (4) A-I, B-II, C-IV, D-III (4) A-I, B-II, C-IV, D-III (4) A-I, B-II, C-III, D-IV		in water restricts the of nutrients		belo
domestic sewage and waste water in lakes.  Idatch List I with List II.  List I List III.  Taenia I. Nephridia  B. Paramoecium II. Contractile vacuole C. Periplaneta III. Flame cells V. Urecose gland Choose the correct answer from the options give below: A-I, B-II, C-IV, D-III  A-II, B-II, C-IV, D-III  A-II, B-II, C-IV, D-III  A-II, B-II, C-III, D-IV  Gr Given below are two statements:		(3) Algal Bloom doors and Bloom'		(1)
domestic sewage and waste water in lakes.  Idatch List I with List II.  List I List III.  Taenia I. Nephridia  B. Paramoecium II. Contractile vacuole C. Periplaneta III. Flame cells V. Urecose gland Choose the correct answer from the options give below: A-I, B-II, C-IV, D-III  A-II, B-II, C-IV, D-III  A-II, B-II, C-IV, D-III  A-II, B-II, C-III, D-IV  Gr Given below are two statements:		(4) Eutrophication refere This mortality	1	(.)
fatch List I with List II.  List II  List II  List III  Nephridia  B. Paramoecium II. Contractile vacuole C. Periplaneta III. Flame cells D. Pheretima VV. Urecose gland Choose the correct answer from the options give below: (1) A-I, B-II, C-IV, D-III (2) A-III, B-II, C-IV, D-III (3) A-II, B-I, C-IV, D-III (4) A-I, B-II, C-III, D-IV	1	domestic sewage and what		(2)
Match List I with List II.  List I  List II  Lis	A	lakes. water in		(2)
List I List I List II List II Nephridia B. Paramoecium II. Contractile vacuole C. Periplaneta D. Pheretima W. Urecose gland Choose the correct answer from the options give below: A-I, B-II, C-IV, D-III A-II, B-II, C-IV, D-III A-II, B-II, C-IV, D-III A-II, B-II, C-IV, D-III A-II, B-II, C-III, D-IV  7 Given below are two statements:		6	-	(2)
List I  Taenia  I. Nephridia  B. Paramoecium  II. Contractile vacuole  C. Periplaneta  III. Flame cells  D. Pheretima  V. Urccose gland  Choose the correct answer from the options  give below:  (1) A-I, B-II, C-IV, D-III  (2) A-II, B-I, C-IV, D-III  (3) A-II, B-I, C-IV, D-III  (4) A-I, B-II, C-III, D-IV  77 Given below are two statements:		Match List I with List II.		(3)
B. Paramoecium II. Contractile vacuole C. Periplaneta III. Flame cells D. Pheretima V. Urceose gland Choose the correct answer from the options give below: A-I, B-II, C-IV, D-II  (A) A-II, B-II, C-IV, D-III  (A) A-I, B-II, C-III, D-IV  7 Given below are two statements:		List I List II		
C. Periplaneta III. Contractile vacuole D. Pheretima V. Urccose gland Choose the correct answer from the options give below: A-I, B-II, C-IV, D-III (3) A-II, B-I, C-IV, D-III (4) A-I, B-II, C-III, D-IV  77 Given below are two statements:	1			5
Choose the correct answer from the options give below:  A-I, B-II, C-IV, D-III  (4) A-I, B-II, C-III, D-IV  77 Given below are two statements:			71	•
Choose the correct answer from the options give below:  A-I, B-II, C-IV, D-II  (3) A-II, B-II, C-IV, D-III  (4) A-I, B-II, C-III, D-IV		D. Plane cells		
A-I, B-II, C-IV, D-III (C) A-III, B-II, C-IV, D-II (C) A-II, B-II, C-IV, D-III (C) A-II, B-II, C-IV, D-III (C) A-II, B-II, C-III, D-IV		Choose the correction. Urecose gland	169	Rad
A-I, B-II, C-IV, D-III (C) A-III, B-II, C-IV, D-I (3) A-II, B-I, C-IV, D-III (4) A-I, B-II, C-III, D-IV (C)  77 Given below are two statements:		give below:		phyl
(3) A-II, B-I, C-IV, D-II (4) A-I, B-II, C-III, D-IV (5) (7) (7) (8) (7) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8		A-I. B-II C-IV D III 10	1	V
(4) A-I, B-I, C-III, D-IV	1	W) A-III, B-II, C-IV D-I		(3)
(4) A-I, B-II, C-III, D-IV (5) 170 M		(3) A-II, B-I, C-IV D-III		(-)
67 Given below are two statements:		(4) A-I, B-II, C-III, D-IV	170	Mate
			170	
Statement I: Electrostatic precipitator is	57	Given below are two statements:		L
most widely used in the most		Statement I: Electrostatic precipitator is		((
Statement II: Electrostatia prodicitates in		Statement II: Electrostatic procinitator in		A. Pe
thermal power plant removes ionising		thermal power plant removes ionising		B. G
radiations C.		radiations		C. O
		In the light of the above statements, choose		D. H
		In the light of the above statements, choose		D. H

the most appropriate answer from the

(1) Both Statement I and Statement II

(3) Statement I incorrect but Statement II

(4) Both Statement I and Statement II

Statement II is incorrect!

options given below:

are incorrect. Statement I is correct but

is correct.

are correct.

F1\_English ]

ven below are two statements:

tement I: Vas deferens receives a duct m seminal vesicle and opens into urethra the ejaculatory duct.

tement II: The cavity of the cervix is ed cervical canal which along with vagina ns birth canal.

he light of the above statements, choose correct answer from the options given

- Both Statement I and Statement II are false.
- Statement I is correct but Statement II is false.
- Statement I incorrect but Statement II is true.

Both Statement I and Statement II are true.

ial symmetry is NOT found in adults of Hemichordata (2) Coelenterata

Echinodermata (4) Ctenophora

tch List I with List II.

List II (Secretion)

eptic cells Mucus

oblet cells JI. Bile juice

III. Proenzyme pepsinogen

D. Hepatic cells V. HCl and intrinsic factor for absorption of

vitamin B<sub>12</sub>

Choose the correct answer from the options given below:

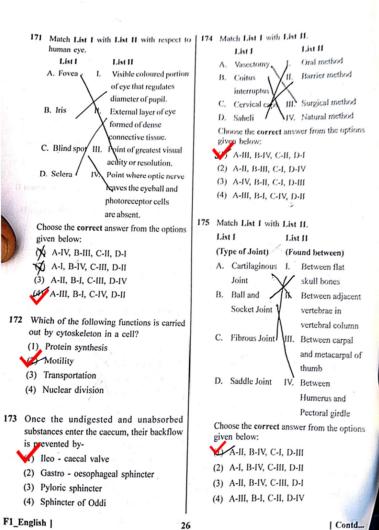
- (1) A-II, B-I, C-III, D-IV A-III, B-I, C-IV, D-II
- (3) A-II, B-IV, C-I, D-III
- (4) A-IV, B-III, C-II, D-I

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- 164 Principles Of Inheritence and Variation -- Page No. 91
- 165 Environmental Issues—Page No. 276
- 166 Animal Kingdom-Page No. 51,52,114
- 167 Environmental Issues-Page No. 271
- 168 Human Reproduction-Page No. 43,46
- Animal Kingdom-Page No. 49
- 170 Digestion And Absorption-Page No. 262





- 171 Neural Control and Coordination-Page No. 324
- 172 Cell: The Unit Of Life-Page No. 136
- 173 Digestion And Absorption Page No. 259
- 174 Reproductive Health-Page No. 60,61
- 175 Locomotion And Movement—Page No.312

76 Given below are two statements:

Statement 1: RNA mutates at a faster rate. Statement II: Viruses having RNA genome and shorter life span mutate and evolve

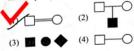
In the light of the above statements, choose the correct answer from the options given

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

177 Given below are two statements: Statement I: In prokaryotes, the positively charged DNA is held with some negatively charged proteins in a region called nucleoid. Statement II: In eukaryotes, the negatively charged DNA is wrapped around the positively charged histone octamer to form

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

- (1) Both Statement I and Statement II are false.
- (2) Statement I is correct but Statement II is false.
- Statement I incorrect but Statement II is true.
- (4) Both Statement I and Statement II
- 178 Which one of the following symbols represents mating between relatives in human pedigree analysis?



F1 English ]

179 Select the correct group/set of Australian May upials exhibiting adaptive radiation.

- Numbat, Spotted cuscus, Flying phalanger
  - Mole, Flying squirrel, Tasmanian tiger cat
  - (3) Lemur, Anteater, Wolf
- (4) Tasmanian wolf, Bobcat, Marsupial mole
- Which of the following is not a cloning (2) pBR322 vector?
  - YAC YAC (3) Probe

- (4) BAC
- 181 Match List I with List II.
- List I Effect on cardiovascular system A. Heroin B. Marijuana II. Slow down body function
- C. Cocaine III. Painkiller
- D. Morphine IV. Interfere with transport of dopamine

Choose the correct answer from the options given below:

- (1) A-I, B-II, C-III, D-IV
- (2) A-IV, B-III, C-II, D-I
- (3) A-III, B-IV, C-I, D-II
- A-II, B-I, C-IV, D-III
- 182 Which one of the following techniques does not serve the purpose of early diagnosis of a desease for its early treatment?
  - Serum and Urine analysis
  - (2) Polymerase Chain Reaction (PCR) technique
  - (3) Enzyme Linked Immuno-Sorbent Assay (ELISA) technique
  - (4) Recombinant DNA Technology

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- 176 Molecular Basis Of Inheritence Page No.103
- Molecular Basis Of Inheritence-Page No.99
- Principles Of Inheritence and Variation—Page No. 88
- 179 Evolution-Page No. 133
- 180 Biotechnology: Principles and Processes
- 181 Human Health And Diseases Page No. 158,159
- 182 Biotechnology And its Applications—Page No. 212

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

Assertion A: Endometrium is necessary for implantation of blastocyst.

Reason R: In the absence of fertilization. the corpus luteum degenerates that causes disintegration of endometrium.

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

- (1) Both A and R are true but R is NOT the correct explanation of A.
- is true but R is false. A is false but R is true.
- (4) Both A and R are true and R is the correct explanation of A.

### 184 Match List I with List II.

#### List I List II

- A. Gene 'a'
- β-galactosidase
- B. Gene 'v'
- II. Transacetylase
- C. Gene 'i' D. Gene 'z'
- III. Permease
- IV. Repressor protein Choose he correct answer from the options give below:
- (1) A-II, B-III, C-IV, D-I
- (2) A-III, B-IV, C-I, D-II
- (3) A-III, B-I, C-IV, D-II
- (4) A-II, B-I, C-IV, D-III
- 185 Given below are statements: one is labelled as Assertion A and the other is labelled as Reason R.

Assertion A: Nephrons are of two types: Cortical & Juxta medullary, based on their relative position in cortex and medulla.

Reason R: Juxta medullary nephrons have short loop of Henle whereas, cortical nephrons have longer loop of Henle.

In the 1ght of the above statements, choose the orrect answer from the options given below:

- (1) Both A and R are true but R is NOT the correct explanation of A.
- (2) A is true but R is false.
- A is false but R is true.

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(4) Both A and R are true and R is the correct explanation of A.

### Zoology: Section-B (Q. No. 186 to 200)

- Which of the following is characteristic feature of cockroach regarding sexual discorphism ?
  - 1) Presence of anal styles
  - (2) Presence of sclerites
  - (3) Presence of anal cerci
  - (4) Dark brown body colour and anal cerci
- Select the correct statements.
  - Tetrad formation is seen during Leptotene.
  - During Anaphase, the centromeres split and chromatids separate.
  - Terminalization takes place during Pachytene.
  - Nucleolus, Golgi complex and ER are reformed during Telophase.
  - Crossing over takes place between sister chromatids of homologous chromosome.
  - the correct answer from the options below:

  - (1) B and D only
  - (2) A, C and E only
  - (3) B and E only
  - (4) A and C only
- 188 Which of the following statements are correct?
  - A. An excessive loss of body fluid from the body switches off osmoreceptors.
  - ADH facilitates water reabsorption to prevent diuresis.
  - ANF causes vasodilation.
  - ADH causes increase in blood pressure.
  - ADH is responsible for decrease in GFR.

Choose the correct answer from the options given below:

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

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- 183 Human Reproduction-Page No. 50,53
- 184 Molecular Basis Of Inheritence-page No. 116
- 185 Excretory Product and their Elimination-Page No. 293
- 186 Structural Organisation In animals—Cockroach--page No.112
- 187 Cell cycle and cell division-page no. 165,166,168
- 188 Chemical Coordination and Integration-Page No. 333

Given below are two statements: Statement 1: During  $G_0$  phase of cell cycle, the cell is metabolically inactive. Statement II: The centrosome undergoes duplication during S phase of interphase. In the light of the above statements, choose the most appropriate answer from the

(1) Both Statement I and Statement II

Statement I is correct but Statement II is incorrect. Statement 1 is incorrect but Statement II is correct.

(4) Both Statement I and Statement II

190 Which one of the following is NOT an advantage of inbreeding?

(1) It exposes harmful recessive genes that are eliminated by selection.

Elimination of less desirable genes and accumulation of superior genes takes place due to it.

It decreases the productivity of inbred population, after continuous inbreeding. (4) It decreases homozygosity.

### 191 Match List I with List II. List I List II

A. Logistic Unlimited resource growth availability condition Limited resource

B. Exponential

availability condition growth III. The percent individuals C. Expanding of pre-reproductive age pyramid age is largest followed by reproductive and post reproductive

D. Stable age pyramid

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age groups IV. The percent individuals of pre-reproductives and reproductive age group are same

Choose the correct answer from the options given below:

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

A-II, B-IV, C-III, D-I (4) A-II, B-I, C-III, D-IV 192 Which of the following are NOT under the control of thyroid hormone?

- A. Maintenance of water and electrolyte
- Regulation of basal metabolic rate
- Normal rhythm of sleep-wake cycle
- D. Development of immune system
- Support the process of R.B.Cs formation Choose the correct answer from the options given below:
- (1) B and C only C and D only
- (3) D and E only (4) A and D only

193 The unique mammalian characteristics are: hairs, pinna and mammary glands

- hairs, pinna and indirect development
- (3) pinna, monocondylic skull and mammary glands
- (4) hairs, tympanic membrane and mammary glands
- 194 Which of the following statements are correct regarding skeletal muscle?
  - A. Muscle bundles are held together by collagenous connective tissue layer called fascicle.
  - B. Sarcoplasmic reticulum of muscle fibre is a store house of calcium ions.
  - Striated appearance of skeletal muscle fibre is due to distribution pattern of actin and myosin proteins.
  - D. M line is considered as functional unit of contraction called sarcomere.

Choose the most appropriate answer from the options given below:

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

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(4) A, B and C only

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- 189 Cell cycle and cell division-page no. 164
- 190 Strategies for Enhancement in Food Production-Page No.167
- 191 Organism and Population Page No. 226,227
- 192 Chemical Coordination and Integration—Page No. 333
- 193 Animal Kingdom Page No. 59
- 194 Locomotion And Movement—Page No.304

- 195 Which of the following statements are 198 Match List I with List II.
  - A. Basophils are most abundant cells of the total WBCs
  - B. Basophils secrete histamine, serotonin and heparin
  - Basophils are involved in inflammatory response
  - D. Basophils have kidney shaped nucleus
  - E. Basophils are agranulocytes

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

- (1) C and E only B and C only
- (3) A and B only (4) D and E only
- Which one of the following is the sequence on corresponding coding strand, if the sequence on mRNA formed is as follows
  - 5' AUCGAUCGAUCGAUCG AUCG AUCG 3'?
  - GCUAGCUAGCUAGCUAGCUA
  - 5' ATCGATCGATCGATCGATCG ATCGATCG 3'
- (3) 3' ATCGATCGATCGATCGATCG ATCGATCG 5'
- (4) 5' UAGCUAGCUAGCUA GCUAGC UAGC 3'
- 197 The parts of human brain that helps in regulation of sexual behaviour, expression of excitement, pleasure, rage, fear etc. are:
  - (1) Corpora quadrigemina & hippocampus
  - (2) Brain stem & epithalamus
  - (3) Corpus callosum and thalamus
  - Limbic system & hypothalamus

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- 198 Match List I with List II.

  List II

  A. Mast cells Ciliated epithelium

  B. Inner surface II. Areolar
  - of bronchiole
    C. Blood
- connective tissue
  III. Cuboidal epithelium
  V. specialised
  - D. Tubular parts VV. of nephron connective tissue connective tissue Choose the correct answer from the options
  - give below:
  - A-II, B-I, C-IV, D-III
- A-III, B-IV, C-II, D-I
- 199 In cockroach, excretion is brought about by-
  - A. Phallic gland B. Urecose gland
  - C. Nephrocytes D. Fat body
  - E. Collaterial glands

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

- (1) A, B and E only
- B, C and D only
- (3) B and D only
- (4) A and E only
- 200 Select the correct statements with reference
  - Presence of a mid-dorsal, solid and double nerve cord.
  - B. Presence of closed circulatory system.
  - C. Presence of paired pharyngeal gillslits.
  - D. Presence of dorsal heart
  - E. Triploblastic pseudocoelomate animals.
     Choose the correct answer from the options gives below:
  - B and C only
  - (2) B, D and E only
  - (3) C, D and E only
  - (4) A, C and D only

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- 195 Body Fluids And Circulation-Page No. 279
- 196 Molecular Basis Of Inheritence-page No. 108
- 197 Neural Control and Coordination Page No. 321
- 198 Structural Organisation In animals page No.101
- 199 Structural Organisation In animals-Cockroach--page No.115
- 200 Animal Kingdom-Page No. 54,55