

170 Match List I with List II

List I	List II
A. <i>Taenia</i>	I. Nephridia
B. <i>Paramoecium</i>	II. Contractile vacuole
C. <i>Periplaneta</i>	III. Flame cells
D. <i>Pheretima</i>	IV. Alrecese gland

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

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

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

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

172 Match List I with List II.

List I	List II
A. CCK	I. Kidney
B. GIP	II. Heart
C. ANF	III. Gastric gland
D. ADH	IV. Pancreas

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

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

173 Given below are two statements:

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:

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

174 Given below are two statements:

Statement I: 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 α type and two subunits of β type.)

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 true but **Statement II** is false.
- (4) **Statement I** is false but **Statement II** is true.

175 Radial symmetry is NOT found in adults of phylum _____.

- (1) Ctenophora
- (2) Hemichordata
- (3) Coelenterata
- (4) Echinodermata

176 Which one of the following techniques does not serve the purpose of early diagnosis of a disease for its early treatment?

- (1) Recombinant DNA Technology
- (2) Serum and Urine analysis
- (3) Polymerase Chain Reaction (PCR) technique
- (4) Enzyme Linked Immuno-Sorbent Assay (ELISA) technique

177 Once the undigested and unabsorbed substances enter the caecum, their backflow is prevented by-

- (1) Sphincter of Oddi
- (2) Ileo - caecal valve
- (3) Gastro - oesophageal sphincter
- (4) Pyloric sphincter

178 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:

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

179 Broad palm with single palm crease is visible in a person suffering from-

- (1) Down's syndrome
(2) Turner's syndrome
(3) Klinefelter's syndrome
(4) Thalassemia

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

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

181 Match List I with List II

- | List I | List II |
|---------------|----------------------------------|
| A. Ringworm | I. <i>Haemophilus influenzae</i> |
| B. Filariasis | II. <i>Trichophyton</i> |
| C. Malaria | III. <i>Wuchereria bancrofti</i> |
| D. Pneumonia | IV. <i>Plasmodium vivax</i> |

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

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

182 Which of the following is not a cloning vector?

- (1) BAC (2) YAC
(3) pBR322 (4) Probe

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

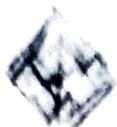
Assertion A: Endometrium is necessary for implantation of blastocyst.

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

[Contd...



184 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 nucleosome.

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** incorrect but **Statement II** is true.

185 Match List I with List II.

List I (Interacting species)	List II (Name of Interaction)
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- | | |
|--|------------------|
| A. A Leopard and a Lion in a forest/ grassland | Competition |
| B. A Cuckoo laying egg in a Crow's nest | Brood parasitism |
| C. Fungi and root of a higher plant in Mycorrhizae | Mutualism |
| D. A cattle egret and a Cattle in a field | Commensalism |

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

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

186 Which of the following are NOT under the control of the thyroid hormone?

- A. Maintenance of water and electrolyte balance
 - B. Regulation of basal metabolic rate
 - C. Normal rhythm of sleep-wake cycle
 - D. Development of immune system
 - E. Support the process of R.B.C's formation
- Choose the **correct** answer from the options given below:

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

187 In cockroach, excretion is brought about by.

- A. Phallic gland
- B. Ureucose gland
- C. Nephrocytes
- D. Fat body
- E. Collateral glands

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

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

188 Match List I with List II.

List I	List II
A. Mast cells	I. Ciliated epithelium
B. Inner surface of bronchiole	II. Areolar connective tissue
C. Blood	III. Cuboidal epithelium
D. Tubular parts of nephron	IV. specialised connective tissue

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

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

- 189** The unique mammalian characteristics are:
 (1) hairs, tympanic membrane and mammary glands
 (2) hairs, pinna and mammary glands
 (3) hairs, pinna and indirect development
 (4) pinna, monocondylic skull and mammary glands
- 190** Select the correct statements with reference to chordates.
 A. 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 given below:
 (1) A, C and D only
 (2) B and C only
 (3) B, D and E only
 (4) C, D and E only
- 191** Select the correct statements.
 A. Tetrad formation is seen during Leptotene.
 B. During Anaphase, the centromeres split and chromatids separate.
 C. Terminalization takes place during Pachytene.
 D. Nucleolus, Golgi complex and ER are reformed during Telophase.
 E. Crossing over takes place between sister chromatids of homologous chromosome.
 Choose the **correct** answer from the options given below:
 (1) A and C only
 (2) B and D only
 (3) A, C and E only
 (4) B and E only
- 192** The parts of human brain that helps in regulation of sexual behaviour, expression of excitement, pleasure, rage, fear etc. are :
 (1) Limbic system & hypothalamus
 (2) Corpora quadrigemina & hippocampus
 (3) Brain stem & epithalamus
 (4) Corpus callosum and thalamus
- 193** Given below are two statements:
Statement I: 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 options given below:
 (1) Both **Statement I** and **Statement II** are correct.
 (2) Both **Statement I** and **Statement II** are incorrect.
 (3) **Statement I** is correct but **Statement II** is incorrect.
 (4) **Statement I** is incorrect but **Statement II** is correct.
- 194** Which one of the following is the sequence on corresponding coding strand, if the sequence on mRNA formed is as follows
 5' AUCGAUCGAUCGAUCGAUCG
 AUCG AUCG 3' ?
 (1) 5' UAGCUAGCUAGCUAGCUA
 GCUAGC UAGC 3'
 (2) 3' UAGCUAGCUAGCUAGCUA
 GCUAGCUAGC 5'
 (3) 5' ATCGATCGATCGATCGATCG
 ATCGATCG 3'
 (4) 3' ATCGATCGATCGATCGATCG
 ATCGATCG 5'