

Section-A**Multiple Choice Questions (MCQ's)**

- Q.1 Choose the correct answer the each from the given options:**
- (i) Which of the following phylum has animals show pseudo-coelomate?
 (a) Platy-helminthes (b) Annelida
 (c) Nemathelminthes (d) All of these
- (ii) Which of the following is mismatched?
 (a) Ribosomes-Protein Synthesis (b) Nucleolus-Ribosomes Production
 (c) Mitochondria Respiration (d) Golgi-bodies- Release Ca^{++} ions
- (iii) Change in the concentration of CO_2 and H^+ in the human blood is monitored by _____.
 (a) Carotid body (b) Aortic body
 (c) Alveolus (d) Both (a) and (b)
- (iv) Bicuspid valves are present in between _____ chambers of human heart.
 (a) Right atrium and Right ventricle (b) Left atrium and left ventricle
 (c) Right ventricle and pulmonary artery (d) Left ventricle and Aorta
- (v) _____ is tentative statement about Biological problems.
 (a) Deductive reasoning (b) Theory (c) Hypothesis (d) Conclusion
- (vi) Spider web is an example of _____ structure of protein.
 (a) Primary (b) Secondary (c) Tertiary (d) Quaternary
- (vii) _____ is a group of exclusively marine water animals.
 (a) Cnidaria (b) Echinodermata (c) Mollusca
 (d) Platy-helminthes
- (viii) Which of the following G.I.T disorder occurs only in female?
 (a) Obesity (b) Piles (c) Bulimia nervosa (d) Ulcer

Section-B**(Short Answer)**

Note: Answer any TEN of the following question. Q.No. is compulsory which carries 03 marks and all other questions carry 02 marks.

- Q.2 Distinguish between any one of the following.
 (a) Single Circuit Plane & Double Circuit Plan
 (b) Flying Birds & Flightless Birds
- Q.3 What is hydroponics? Write down its advantages.
- Q.4 Draw diagram of Steroid nucleus.
- Q.5 How do Amino Acids differ from one another? Show the linkage together of two Amino Acids with each other.
- Q.6 What type of cells contain more Golgi bodies and why?
- Q.7 Name of two phyla which are Deuterostomata along with their examples?
- Q.8 Give the Dental formula of Human beings.
- Q.9 Name of various types of Canal System in Porifera. What are their functions?
- Q.10 What is role of Hemoglobin and Myoglobin?
- Q.11 Define any TWO of the following:
 (i) Apiculture (ii) Biosphere
 (iii) Allosteric Site (iv) Enthritis
- Q.12 How is Bird. Complete Ventilation achieved?
- Q.13 What is the advantage of Metamerism in animals?
- Q.14 What is the effect of temperature on the Enzyme activity?

Section-C**(Descriptive Answer)**

Note: Answer any ONE of the following questions. Each question carries 13(7+6) marks. Draw labeled diagram where ever necessary.

- Q.15(a): Describe the general characteristics of class Hexapoda
 (b) How sac like digestive System is different from tube like digestive System? Explain the mode of Nutrition in Planaria.
- Q.16(a): Define Immune System. How second line of defence work after invasion of micro organisms.
 (b) Define chromosomes. What is the role of Centromere in their classification. Draw suitable diagrams of their types.