

Section-B Short Answer

Note: Answer any TEN of the following questions.

- Q.2: Distinguish between any ONE of the following:
(a) Flat worm & Round worm (b) Stomodaeum & Proctodaeum
- Q.3: Water is considered as "Polar molecule," why?
- Q.4: Name the type of "Police of the body" involved in:
(a) Signaling for the activation of B cells.
(b) Destruction of virally infected cells.
(c) Phagocytosis of bacteria. (d) Release of Histamine
- Q.5: How the stomach itself is protected against the action of HCl?
- Q.6: Name the processes for the transport of:
(i) amylase, (ii) oxygen (iii) bacteria, (iv) water
through the plasma membrane of an animal cell.
- Q.7: Enlist the properties of respiratory surface.
- Q.8: Enzymes are considered to be thermolabile catalysts, why?
- Q.9: Why sac-like gut is considered as incomplete?
- Q.10: Show through the structural formula how amino acids differ from each other.
- Q.11: Name the Phyla of any Two of the following giving one reason for each.
(a) Squid (b) Silver fish (c) Peacock worm (d) Venus flower basket
- Q.12: Which cell organelle is called "Power house" of cell and why?
- Q.13: Define any TWO of the following:
(a) Hypothesis (b) Hydrolysis (c) Emphysema (d) Dyspepsia
- Q.14: Even though the diameter of capillary is microscopic, the blood flow through capillary bed is slow, why?

Section-C (Description Answer)

Note: Answer any ONE of the following questions.

- Q.15(a) What is METAMERISM? Explain salient features of group of animals having simplest metamerism.
(b) Discuss "Cardiac Cycle" how the characteristic LUB- DUB sound is produced.
- Q.16(a) Explain the structure and functions of cytoskeleton.
(b) How the aquatic animals like fish overcome the shortage of oxygen? Explain with the help of illustration.