

Section-A

Multiple Choice Questions (MCQ's)

Q.1 Choose the correct answer for each from the given options:

- (i) Which one of these is not lipid?
 (a) Steriod (b) Fat (c) Polysaccharide (d) Wax
- (ii) Which kingdom is mismatched?
 (a) Monera - fungi (b) Protista- multicellular algae
 (c) Plantae- Flowers and mosses (d) Animalia -Arthropod and humans
- (iii) An enzyme which acts within the same cell is called:
 (a) Exoenzyme (b) Endoenzyme (c) Apoenzyme
 (d) Proteozyme
- (iv) The cell organelle containing digestive enzyme is:
 (a) ribosomes (b) Golgi-bodies (c) Lysosomes
 (d) Peroxisomes
- (v) The resting stage of Arthropod's embryo is:
 (a) Nymph (b) Pupa (c) Adult (d) Bipinnaria larva
- (vi) The role of bile in digestion is to:
 (a) Digest carbohydrates (b) Emulsifies fats
 (c) Digest lipids (d) Digest proteins
- (vii) The respiratory surface in humans is:
 (a) Lamella (b) Bronchi (c) Bronchioles (d) Alveoli
- (viii) The life span of RBCs is:
 (a) 150 days (b) 180 days (c) 120 days (d) 100 days.

Section-B

(Short Answer)

Note: Answer any TEN of the following questions. Question No:2 is compulsory which carries 03 marks and all other questions carry 02 marks.

- Q.2** Distinguish between any one of the following:
 (a) Humoral immunity and Cell Mediated immunity
 (b) Pulmonary circulation and systemic circulation
- Q.3** What are "lysosomal" storage diseases? Enlist any three of these.
- Q.4** Why RNA is known as "carrier of information"?
- Q.5** Why are Enzymes specific?
- Q.6** What are three types of element found in Cytoskeleton?

- Q.7** How protostome differ from deuterostome?
- Q.8** Fishes are well adapted to aquatic life . explain.
- Q.9** Define any TWO of the following:
 Detritivores Inflammation Peristalsis Blood Pressure
- Q.10** What do you understand by counter current flow in fishes?
- Q.11** How does the blood flow in one direction through heart?
- Q.12** Define lymph vessel and functions of lymphatic system.
- Q.13** What is respiratory surface? List the properties of respiratory surfaces.
- Q.14** What is " Fluid mosaic model"?

Section-C

(Descriptive Answer)

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

- Q.15** (a) Explain the phrase " Breathing by using negative pressure.?"
 (b) Describe what happens to food inside the stomach of human?
- Q.16** (a) What are CORPUSCLES? How do they differ in shape, size, number and function?
 (b) How the aves modified themselves for aerial mode of life? Why they are called "golrified reptiles"?