

## SECTION 'B' (Short-Answer Questions) (12)

NOTE: Attempt Six part questions from this section. Select three from Reasoning Questions and Three from Non-reasoning questions. All questions carry equal marks.

### 2. (a) Reasoning Questions:

2. (a) (i) How does substrate concentration affect the activity of enzymes?
2. (a) (ii) Why are amphibians successful land vertebrates?
2. (a) (iii) Why is the liver known as a metabolic factory in the body?
2. (a) (iv) Why is a double circuit heart in animals better than a single circuit heart?
2. (a) (v) Why is air better respiratory medium than water?
2. (a) (vi) Why is Archaeopteryx considered as connecting link between Reptiles and Birds?

### 2. (b) Non-Reasoning Questions:

2. (b) vii) Define Population and Community.
2. (b) viii) Differentiate between Chondrichthyes and Osteichthyes.
2. (b) ix) Draw a neat and labelled diagram of Inspiration and Expiration in Man (ventral view).
2. (b) ix) (OR) Write the conditions necessary for a respiratory surface in animals.
2. (b) x) Write the functions of lymphatic system.
2. (b) xi) Write the parasitic adaptations in Helminthes.
2. (b) x) Write note on condensation.

## SECTION "C" (Detailed Answer Questions)(09)

NOTE: Attempt any One questions from this section. All questions carry equal marks.

3. a) Describe the salient features of phylum Annelida OR mollusca. Classify the phylum and give the characteristics of each class.
3. b) Write the characteristics of any one class that belongs to Amniotes.
4. a) Describe the digestive system of man (Diagram is not required)
4. a) (OR) Explain Adaptive Immune System.
4. b) Write note on different types of mouth parts in insects.
5. a) Describe the internal structure of the human heart and draw its neat and labelled diagram.
5. b) Differentiate between Artery and Vein.

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