

- Note: 1) All questions are compulsory
 2) Figures to the right indicate full marks
 3) Draw neat labeled diagram wherever applicable

- Q1 Answer briefly (any 2) 20
1. Define cephalization add a note to it
 2. Give the characteristics of protozoa
 3. Define coelom add a note on pseudocoelomata and acoelomata
 4. Define asexual reproduction add a note on binary fission and fragmentation
- Q2 A Answer any one of the following 10
1. Explain mechanism of ciliary movement
 2. Describe heart types in chordates
- Q2 B Answer briefly any two of the following 10
1. Sol-gel theory
 2. Air sacs
 3. Diagrammatic representation of glycolysis
 4. Digestion of protein in man
- Q3 Answer briefly (any 2) 20
1. Explain production and decomposition in an ecosystem
 2. Explain oxygen cycle and factors affecting it
 3. Explain factors affecting predation
 4. Explain energy flow in an ecosystem
- Q4 Write short note on the following any three 15
1. Bilateral symmetry
 2. Triploblastic germ layer
 3. Phototrophic nutrition
 4. Lung of frog
 5. Commensalism with example
 6. Mutualism and its types