

B.Sc. 1st Semester (Hons.) Examination, 2021 (CBCS)
Subject: Zoology

Paper: CC-1 (Non-Chordates)

Full Marks: 40

Time: 2 Hrs

Candidates are required to give the answers in their own words as far as practicable.

Answer any eight questions of the following:

$5 \times 8 = 40$

1. What is ‘Principle of Priority’? Write down the concept of Five Kingdom classification proposed by Whittaker.
 2. Diagrammatically represent the process of conjugation in *Paramoecium* sp.
 3. Critically differentiate between taxonomy and systematics.
 4. Compare between Fringing reef and Atoll with examples.
 5. Briefly describe different types of spicules in Porifera with suitable diagrams.
 6. Describe the life cycle of *Fasciola hepatica* with a neat labeled diagram.
 7. Give a brief account of the larval development of *Wuchereria bancrofti*.
 8. Illustrate the erythrocytic cycle in the life history of *Plasmodium vivax*.
 9. Discuss the evolution of symmetry in metazoa.
 10. Justify inclusion of *Hydra*, *Aurelia* and *Corallium* within different classes under the same phylum.
-