

Name of the Course : **B.Sc. (H) Zoology Examination, 2020-CBCS**

Semester : I

Name of the Paper : Non-chordates I - Protista to Pseudocoelomates

Unique Paper Code : 32231101 _ **OC**

Duration : 3 hours

Maximum Marks : 75 Marks

Instructions for Students

- Write your Roll No., Name of the paper, Course, Semester and Date of examination on the first page of answer sheet.
- Attempt **ANY FOUR** questions in all.
- All questions carry equal marks (18.75 each).
- Draw well labelled diagrams wherever required.

1. Explain the various modes of reproduction in Slipper Animalcule. Among these, which mode is the most suitable for its survival and why? (18.75)
2. Discuss the water canal system in *Spongilla* and *Euplectella*. Which of them have a more advanced canal system and why? (18.75)
3. In *Physalia* colony, 'Individuals show division of labour but not genetic polymorphism', elaborate the statement. Why 'Metagenesis' is not a true alternation of generations in Cnidaria? (18.75)
4. Explain that how Pseudometamerism is different from true Metamerism? Justify if *Taenia* is an individual or a colony of different organisms. (18.75)

5. If a child is suffering from intense colic pain, abdominal discomfort, intestinal blockage, diarrhea, weight loss and growth impairment then explain, from which disease, he/she is suffering? Discuss the complete life cycle of the parasite. (18.75)

6. Define the terms Protista, Parazoa and Metazoan with examples. In the studied phylums, which phylum (any 2) would you like to keep in the group Protostomia and why? Justify your answer. (18.75)

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