## 2022

## **ZOOLOGY — HONOURS**

Paper: CC-1

(Nonchordate - I)

Full Marks: 50

The figures in the margin indicate full marks.

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

## Answer any five questions from the following:

- (a) Distinguish between microtaxonomy and macrotaxonomy.
- (b) What are preconjugants and exconjugants?
- (c) Define metagenesis with an example.
- (d) What do you understand by biradial symmetry? Give an example.
- (e) Where do you find nectocalyx? State its function.
- (f) What are prosopyles and apopyles?
- (g) What is binomial nomenclature? Give an example.
- (h) Mention the causes of coral bleaching.
- 2. Write notes on any two of the following:
  - (a) Role of symbiotic algae in coral reef formation
  - (b) Types of spicules in Porifera
  - (c) Excystment and metacystic development of Entamoeba
  - (d) Parasitic adaptations of Fasciola hepatica.
- 3. Answer any three questions from the following:
  - ►(a) (i) Draw and describe Leuconoid canal system and show the course of water flow.
    - (ii) Draw and describe the structure of flagellum in Euglena sp.

(2+3)+(2

- (b) (i) Explain the pre-erythrocytic schizogony of Plasmodium vivax.
  - (ii) What are Schuffner's dots?
  - (iii) Compare Calcarea and Demospongiae with examples.

4+

## X(Ist Sm.)-Zoology-H/CC-1/CBCS

- (c) (i) Describe the principle of priority with example.
  - (ii) Comment on the main postulates of Carl Woese classification. How does it differ from Whittaker's classification.
  - (iii) What is tautonym? Give an example.

3+(3+2)+(1+1)

- (d) (i) Write about the pathogenicity and control measures of Ascaris lumbricoides.
  - (ii) Briefly describe Miracidium and Cercaria larvae mentioning their occurrence. (3+2)+(2½×2)
- (e) (i) What is atoll?
  - (ii) Briefly describe any two theories of coral reef formation.
  - (iii) State the diagnostic features of Trematoda and Cestoidea with example. 1+(2½×2)+(2+2)