

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2017

(CUCBCSS—UG)

Zoology

ZOL 1B 01—ANIMAL DIVERSITY—NON-CHORDATA—I

(2014 Admission onwards)

Time : Three Hours

Maximum : 80 Marks

Part AI. Answer *all* questions in one or two sentences. Each question carries 1 mark :

- 1 What is Binomial nomenclature ?
- 2 Mention an example for Phylum Parabasalia.
- 3 What are trichocysts ?
- 4 Define symmetry.
- 5 What are choanocytes ?
- 6 Define pseudocoelom.
- 7 What are atolls ?
- 8 Name the class of a free living platyhelminth.
- 9 What are gemmules ?
- 10 What are comb plates? What is their function ?

(10 × 1 = 10 marks)

Part BII. Answer any *ten* of the following. Each question carries 2 marks :

- 11 Distinguish between Polyp and Medusa.
- 12 Give the scientific names of any *two* nematode parasites.
- 13 Mention the parasitic adaptations of *Taenia solium*.
- 14 Explain five Kingdom classification.
- 15 Write a note on *Physalia*.
- 16 Distinguish between Radial symmetry and Bilateral symmetry.

Turn over

- 17 Write the salient features of *Noctiluca*.
- 18 Mention the salient features of Phylum Gastrotricha.
- 19 Explain briefly about parenchymula larva.
- 20 Write a note on *Vorticella*.
- 21 Explain Phylogenetic systematics.
- 22 Describe the general features of Phylum Cnidaria.

(10 × 2 = 20 marks)

Part C

III. Answer any *five* of the following. Each question carries 6 marks :

23. Explain reproduction in *Paramecium*.
24. Explain the life cycle of liver fluke.
25. Give an account of canal system in sponges.
26. Write a short note on the new trends in Systematics.
27. Describe the structure of *Obelia* colony.
28. Give a brief account on ICZN.
29. Briefly explain the salient features of Mesozoa citing examples.
30. Comment on the classification of animals based on germ layers.

(5 × 6 = 30 marks)

Part D

IV Answer any *two* of the following. Each question carries 10 marks.

31. Write an essay on Phylum Platyhelminthes and its classification.
32. Classify Phylum Porifera upto class giving salient features.
33. Write notes on any *four* parasitic nematodes of man.
34. Discuss the general characteristics of the Kingdom Protista and classify them upto Phyla.

(2 × 10 = 20 marks)