

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018

(CUCBCSS—UG)

Core Course (Zoology)

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

Maximum : 80 Ma

Time : Three Hours

Part A

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

- 1 What are spicules ?
- 2 What are cnidoblasts ?
- 3 What is metagenesis ?
- 4 Mention an example for Phylum Apicomplexa.
- 5 Name the larval form of Pleurobrachia.
- 6 Differentiate between Acoelomata and Pseudocoelomata.
- 7 What is Trinomial nomenclature ?
- 8 Comment on Vorticella.
- 9 Explain briefly about amphiblastula.
- 10 Write the salient features of Noctiluca.

(10 × 1 = 10 r

Part B

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

- 11 What are gemmules ?
- 12 Distinguish between schizocoelic coelom and enterocoelic coelom.
- 13 Write down the scientific name of any two nematode parasites.
- 14 Explain the parasitic adaptation of liver fluke.
- 15 Describe the pathogenicity of *Enterobius*.
- 16 Differentiate between radial and bilateral symmetry.
- 17 Comment on the salient features of Phylum Rotifera.
- 18 Write the salient features of Polyp.
- 19 What are comb plates ? What is their function ?

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- 20 What are choanocytes ?
- 21 Distinguish between Protostomia and Deuterostomia.
- 22 Differentiate between Mesozoa and Parazoa.

(10 × 2 = 20 marks)

Part C

- III. Answer any *five* of the following. Each question carries 6 marks :
- 23 Explain the life cycle and pathogenicity of *Wuchereria bancrofti*.
 - 24 Mention the parasitic Adaptations of *Taenia solium*.
 - 25 Write a short essay on ICZN and its principles.
 - 26 Explain the life cycle of *Fasciola hepatica*.
 - 27 Describe the general characters of the Phylum Ctenophora.
 - 28 Explain reproduction in *Paramecium*.
 - 29 Describe the structure of *Obelia colony*.
 - 30 Write a note on *Physalia*.

(5 × 6 = 30 marks)

Part D

- IV. Answer any *two* of the following. Each question carries 10 marks :
- 31 Outline the characteristic features and classification of kingdom Protista down to phyla with examples.
 - 32 Write a short essay on the new trends in systematics.
 - 33 Explain the five kingdom classification of living organism.
 - 34 Briefly explain the salient features of Phylum Platyhelminthes and give the classification down to classes with examples.

(2 × 10 = 20 marks)