

FIRST SEMESTER B.A./B.Sc. DEGREE EXAMINATION, NOVEMBER 2019

(CUCBCSS—UG)

Zoology

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

Time : Three Hours

Maximum : 80 Marks

Part A

I. One Word Questions. Answer *all* questions. Each carries 1 mark :

- 1 Which multicellular phylum has fixed number of body cells ?
- 2 The outward opening of canal system in sponges is _____.
- 3 Name the resistant asexual buds found in freshwater sponges.
- 4 Type of symmetry in *Pleurobrachia*.
- 5 Name the free swimming larva of *Obelia*.
- 6 Common name of *Schistosoma*.
- 7 The phylum to which *Chaetonotus* belongs.
- 8 Which phylum has syncytial epidermis ?
- 9 What is the popular name of *Vorticella* ?
- 10 Type of taxonomy based on features of chromosome.

(10 × 1 = 10 marks)

Part B

II. Short Answer Questions. Answer any *ten* questions. Each carries 2 marks :

- 11 Comment on cydippid larva.
- 12 What is ascon canal system ?
- 13 Write note on *Euplectella*.
- 14 Distinguish between radial and biradial symmetry.
- 15 Comment on phylum Apicomplexa.
- 16 What is the relation between termites and *Trichonympha* ?
- 17 What are choanocytes ?
- 18 Differentiate between amphiblastula and parenchymula.
- 19 Comment on the structure of gemmule.
- 20 Write note on *Dicyema*.

Turn over

- 21 Name the eight kingdoms in Cavellier Smith's classification.
- 22 Comment on polymorphism in *Physalia*.

(10 × 2 = 20 marks)

Part C

III. Paragraph Questions. Answer any five questions. Each carries 6 marks :

- 23 Write notes on : a) Cladistics b) Numerical taxonomy c) Serotaxonomy.
- 24 Describe the morphology of *Obelia*.
- 25 Write on phylum Rotifera with one example.
- 26 Distinguish between sycon and leucon types of canal systems.
- 27 Describe unique features of *Pleurobrachia* with diagram.
- 28 Explain the types of zoological nomenclature .
- 29 Distinguish between polyp and medusa with diagrams.
- 30 Differentiate between class Hydrozoa and class Scyphozoa.

(5 × 6 = 30 marks)

Part D

IV. Essay Questions. Answer any two questions. Each carries 10 marks :

- 31 Explain conjugation in *Paramecium* with diagrams.
- 32 Explain the features of phylum Nematoda with *Ascaris* as example.
- 33 Explain Five kingdom classification.
- 34 Write on the features of phylum Porifera. Classify the phylum with examples.

(2 × 10 = 20 marks)