

SECOND SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION, MAY 2019

B.Sc.—Zoology

ZOL 2B 02—ANIMAL DIVERSITY : NON CHORDATA—II

Time : Three Hours

Maximum : 80 Marks

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

- 1 What is hirudin ?
- 2 What is osphradium ? What is its function ?
- 3 Name a mollusca with internal shell.
- 4 What is metamerism ?
- 5 Mention the phylum and class to which the following animals belong : a. Perna b. Penaeus.
- 6 What are tube feet ?
- 7 What is atriopore ?
8. Mention the function of malpighian tubule.
- 9 Which animal is the connecting link between Annelida and Arthropoda ?
- 10 Name the larva of Nereis ?

(10 × 1 = 10 marks)

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

- 11 What is Heteronereis ? Mention its peculiarities.
- 12 What is the importance of Sacculina ?
- 13 List out four salient features of Peripatus ?
- 14 Comment on the adaptive features of Sepia.
- 15 List out four salient features of Class Asteroidea.
- 16 Distinguish between Class Oligochaeta and Class Polychaeta.
- 17 Give the salient features of Phylum Hemichordata.

Turn over

- 18 What is silverfish ?
- 19 What are the adaptations of Chiton ?
- 20 Mention four salient features of Phylum Annelida.
- 21 Explain the structure of ommatidia in Penaeus.
- 22 Explain coelom.

(10 × 2 = 20 marks)

Part C

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

- 23 Explain the structure and function of parapodium.
- 24 Write a note on the morphological features of Balanoglossus.
- 25 Briefly describe the watervascular system of starfish.
- 26 Describe the general characters of Phylum Echiura.
- 27 Briefly explain the circulatory system of prawn.
- 28 Briefly explain the digestive system of Pila.
- 29 Comment on the salient features of Phylum Bryozoa.
- 30 Classify Phylum Arthropoda down to classes with examples for each class.

(5 × 6 = 30 marks)

Part D

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

- 31 Classify Phylum Echinodermata to classes with general characters and examples.
- 32 With suitable diagram, explain the nervous system of Penaeus.
- 33 Classify Phylum Mollusca upto classes giving examples .
- 34 Write a short account on the nervous system of Pila.

(2 × 10 = 20 marks)