

5U219

(Pages: 2)

Name.....

Reg. No.....

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, JUNE 2016

(CUCBCSS – UG)

(Core Course: Zoology)

CC15U ZO2 B02 – Animal Diversity: Non-Chordata II

(2015 Admission)

Time: Three Hours

Maximum: 80 Marks

Give illustrations wherever necessary

Part A

Answer all questions. Name the following. 1 mark each.

1. Sensory cephalic tentacles in *Dentalium*
2. Location of respiratory tree in sea cucumber
3. Excretory organ of Merostomata
4. A mollusc with internal shell
5. Connecting link between Annelida and Arthropoda
6. Function of green gland
7. A tubicolous annelid
8. Locomotory organ in *Nereis*
9. Larval stage of Hemichordata
10. A sanguivorous animal

(10 x 1 = 10)

Part B

Answer any 10 questions. 2 marks each.

11. What is parasitic castration? Explain with an example.
12. Give the genus names of the following: a) southern birdwing butterfly b) silverfish c) sea lily d) tongue worm
13. Mention the zoological importance of *Limulus*
14. Enlist any four salient features of Phylum Annelida.

15. Differentiate between Scaphopoda and Pelecypoda
16. What is heteronereis?
17. What is meant by living fossil? Explain with an example.
18. Explain the structure and functions of Radula.
19. Write an account on *Sacculina*
20. Explain the mechanism of respiration in *Nereis*.
21. Explain branchial formula in Prawn.
22. What is chelicera?

(10 x 2 = 20)

Part C

Answer any five questions. Paragraph question. 6 marks each.

23. Explain the peculiarities and distribution of *Peripatus*
24. Comment on any three larval stages of *Penaeus*.
25. Give an account on insect pests.
26. Give the salient features of phylum Arthropoda.
27. Explain the structure of compound eye in *Penaeus*
28. Explain the structure of buccal mass and its function in *Pila*
29. Explain the excretory system in *Penaeus*.
30. Write notes on the morphology and adaptations of squid.

(5 x 6 = 30)

Part D

Answer any two. Essay question. 10 marks each.

31. Explain the structure and functions of water vascular system in Star fish.
32. Write an essay on nervous system in *Pila*.
33. Describe the life cycle, adaptations and morphological peculiarities of lophophorites.
34. Classify Phylum Echinodermata with salient features of each class with examples.

(2 x 10 = 20)
