

16U219

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Name.....

Reg. No.....

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY-2017

(Regular/Supplementary/Improvement)

(CUCBCSS – UG)

CC15U ZO2 B02 – ANIMAL DIVERSITY: NON-CHORDATA II

(Core Course: Zoology)

(2015 Admission Onwards)

Time: Three Hours

Maximum: 80 Marks

Give illustrations wherever necessary

Part A

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

1. The scientific name of silverfish
2. Anticoagulant present in the saliva of leech
3. The genus name of the hermit crab
4. The larval stage of *Nereis*
5. A tube dwelling polychaete
6. Genus name of a sessile echinoderm
7. Rasping and cutting organ in the buccal cavity of *Pila*
8. Name a marine colonial bryozoan
9. Respiratory pigment in *Pila*
10. Larva of starfish

(10 x 1 = 10 marks)

Part B

Answer any 10 questions. 2 marks each.

11. Explain parasitic adaptations of leech
12. What are book gills? What is its function?
13. What is mosaic vision?
14. What is symbiotic association? Explain hermit crab as an example.
15. What is statocyst? What is its function?
16. What is branchiostegite? What is its function?
17. Write down the adaptations of *Chiton*
18. Explain excretory structure in *Pila*
19. What is lophophore? What is its function?
20. Explain the sexual dimorphism in *Bonellia*
21. Write down the peculiarities of sea cucumbers
22. Write down the respiratory structures in different echinoderms

(10 x 2 = 20 marks)

Part C

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

23. Explain the reproduction and metamorphosis of *Nereis* with diagram
24. Explain the salient features of Phylum Annelida. Classify it with examples.
25. Explain respiratory system of Prawn. Add notes on mechanism of respiration.
26. Explain locomotion in *Nereis* with a diagram of Parapodia
27. Explain the structure and functions of water vascular system in star fish.
28. Explain the morphological peculiarities of *Asterias*.
29. Explain the sense organs in *Pila*.
30. Write an account on *Balanoglossus*.

(5 x 6 = 30 marks)

Part D

Answer any two. Essay question. 10 marks each.

31. Write the salient features of phylum Arthropoda. Comment on different classes of the phylum with suitable examples.
32. What is meant by compound eye? Explain the structure of compound eye with a diagram.
33. Classify phylum Mollusca with salient features and examples for each class.
34. Write an essay on Zoological importance of *Peripatus*.

(2 x 10 = 20 marks)
