E 5648 (Pages : 2) Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2018

Third Semester

Core Course—ANIMAL DIVERSITY, NON-CHORDATA

(Common for the Programmes B.Sc. Zoology Model I, Model II, B.Sc. Industrial Microbiology and Zoology)

[2013—2016 Admissions]

Time : Three Hours Maximum Marks : 60

Part A (Short Answer Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Mention the genus name of Acorn worm.
2. What is a tubicolous animal ? Give an example.
3. Distinguish between Tergum and Sternum.
4. Mention the types of pseudopodia in *Actinophrys*.
5. What are Monerans ?
6. What is a hydatid ?
7. Write an dipleurula larva.
8. Mention a protostomate phylum.

(8 × 1 = 8)

Part B (Brief Answer Questions)

Answer any **six** *questions.*
Each question carries 2 *marks.*

9. Write on Zoological nomenclature.
10. Distinguish between Radial and Biradial symmetry.
11. Write four diagnostic characters of the phylum dinoflagellata.
12. Write briefly on the pre-erythrocytic cycle of *Plasmodium*.
13. Comment on the basic types of zooids in the phylum coelenterata.
14. Write on the parenchymula larva of sponge.
15. Mention the burrowing adaptations of *Dentalium*.
16. Comment on the peculiarities of *Sepia*.

Turn over

17. Sketch and label the green gland of *Penaeus*.
18. Write on the wheel organ of *Brachionus*.

(6 × 2 = 12)

Part C (Problems/Derivations)

Answer any **four** *questions.*
Each question carries 4 *marks.*

19. Explain the process of pearl formation.
20. Sketch and label the water vascular system in Echinodermata.
21. Enumerate the evolutionary importance of *Peripatus*.
22. With a labelled diagram, explain the structure the compound eye of *Penaeus*.
23. What are coral reefs ? Explain different types of coral reefs.
24. Enumerate the life-cycle of *Fasciola hepatica*.

(4 × 4 = 16)

Part D (Long Answer/Problem Questions)

Answer any **two** *questions.*
Each question carries 12 *marks.*

25. Write on the human pathogenic nematodes.
26. Enlist the salient features of the phylum Echinodermata. Classify the phylum upto classes giving diagnostic characters and one example for each class.
27. With labelled diagrams, explain the thoracic and abdominal appendages of *Penaeus*.
28. With labelled diagrams, explain the ciliary appratus of *Paramecium*.

(2 × 12 = 24)