Q.P. Code : 11133

First Semester B.Sc. Degree Examination,
November/December 2019

(CBCS – 2018-19 onwards – Freshers & Repeaters)

Zoology

Paper I – NON-CHORDATA

Time : 3 Hours] *[Max. Marks : 70*

Instructions to Candidates : Draw labeled diagrams wherever necessary.

PART – A

I. Answer the following in **1** word or **1** sentence each : **(10 × 1 = 10)**

1. Name the phylum that exhibit absolute diploblastic condition.
2. Locomotory organelles are completely absent in which class of phylum protozoa.
3. Name the flagellated cells in Poriferans.
4. What are cnidoblasts?
5. Sea gooseberries belong to which phylum?
6. Define sexual dimorphism.
7. Give the function of Clitellum in Pheretima.
8. Which parasite causes elephantiasis?
9. Name the intermediate host of Taenia solium.
10. Which is the free living larval stage of Fasciola hepatica?

PART – B

II. Answer any **FIVE** of the following : **(5 × 3 = 15)**

11. Differentiate between radial and bilateral symmetry with suitable examples.
12. Write a note on autotrophic nutrition in protozoa.

13. Draw a neat labelled diagram of amphiblastula larva.

14. Name any three zooids of Halistemma and mention their functions.

15. With the help of suitable diagram, mention the functions of flame cells.

16. Mention the occurrence, disease caused and mode of transmission of Leishmania donovani.

17. Give the scientific name of any three species of Earthworm used in Vermiculture.

PART – C

III. Answer any **FIVE** of the following : **(5 × 5 = 25)**

18. What is metamerism? Differentiate pseudometamerism and true metamerism citing suitable examples.

19. Explain euglenoid movement of locomotion in protozoa.

20. Describe rhagonoid type of canal system in sponges.

21. Give the diagramatic representation of life cycle of Aurelia.

22. (a) Enumerate the general characters of phylum nematode.

    (b) Explain the structure of pharyngeal nephridium.

23. List the parasitic adaptations in leech.

24. Explain the life cycle of Ascaris Lumbricoides.

PART – D

IV. Answer any **TWO** of the following : **(2 × 10 = 20)**

25. Explain the process of conjugation in Paramecium. Add a note on its significance.

26. Write notes on :

    (a) Microscopic structure of body wall of sycon

    (b) Digestive system of planaria.

27. Enumerate the general characters of phylum coelenterata. Classify up to classes with suitable examples.

28. (a) With the help of suitable diagrams reveal the morphology of Pheretima.

    (b) Write notes on Cercaria Larva.
