



Register Number:

DATE:

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE - 27
B.Sc., ZOOLOGY – I SEMESTER
SEMESTER EXAMINATION: OCTOBER, 2019
ZO:118 ANIMAL DIVERSITY OF NON CHORDATES

Time- 2 ½ hrs

Max Marks-70

This paper contains two printed pages and four parts

PART-A

I. Answer the following questions. Each question carries 1 mark 7x1=7

1. Choanocytes are specialized cells found in _____ phylum.
2. _____ is the class where freshwater and marine coelenterates are found.
3. The first body segment of earthworm is called as _____.
4. Epidermal cilia and eyes are present in members of _____ class of phylum Platyhelminthes.
5. Hemocoelic body cavity is the characteristic feature of _____ phylum.
6. _____ is the larval stage in phylum Mollusca.
7. _____ is the phylum characterized by pentamerous radial symmetry.

PART-B

II. Briefly answer the following questions. Each question carries two marks 4x2=8

8. Comment on the different classes of phylum Platyhelminthes.
9. Mention any four characteristics of phylum Mollusca.
10. Comment on the amoeboid nutrition in protozoa.
11. Sketch and label the parapodium of Nereis.

PART-C

III. Answer any five questions. Each one carries 5 marks 5x5=25

12. Describe the different modes of asexual reproduction in Protozoa.
13. Write a note on the lifecycle of *Aurelia aurita*.
14. Comment on Integrated Pest management (IPM).
15. Mention any five distinct features of phylum Arthropoda and classify up to classes with suitable examples.
16. Comment on the various type of cells present in the mesoglea of Sponges
17. Comment on the composition of the three distinct layers of a shell with a neat labelled diagram.
18. Draw a neat labelled diagram of bipinnaria larva and add a note on its phylogenetic significance.

PART-D

IV. Answer any three questions. Each question carries 10 marks 3x10=30

19. Explain the asexual phase in the lifecycle of *P. vivax*.
20. Give an account on the parasitic adaptations of Tapeworm with a neat labelled diagram.
21. Explain the lifecycle of silk worm with suitable diagrams.
22. Classify phylum Mollusca based on the foot modifications with suitable examples.