



Register Number:

Date: 13-01-2021

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27
B.Sc. - I SEMESTER
SEMESTER EXAMINATION: JANUARY 2021
ZO118 : 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 one mark 7x1=7

1. _____ is a phylum where you will find only marine organisms.
2. _____ is the animal where you find 8 overlapping shells.
3. Sessile crustaceans are called as _____
4. _____ is an Arthropod with Nephridia as the excretory organ
5. _____ is a phosphorescent protozoan
6. _____ is the first phylum to have a circulatory system
7. Flame cells are the speciality of the phylum _____

PART B

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

8. Define the term "living fossil" with an example
9. What do you mean by Alternation of generations?
10. What do you mean by Hexactinellida, name any two animals associated with it.
11. What is a Gemmule ?

PART C

III. Answer any five questions. Each question carries Five Marks

5x5=25

12. Comment on the Phylogenetic position of Rotifera
13. Draw a neat labelled diagram of the Water Vascular System
14. What is Polymorphism? Explain with an example
15. Differentiate between Trematoda and Cestoda.
16. Briefly explain the Syconoid Canal System
17. Differentiate between Radial Symmetry and Bi-radial Symmetry with examples.
18. Mention the mode of infection and preventive measures of any two parasitic nematodes found in the Human alimentary canal.

PART D

IV. Answer any three questions. Each question carries Ten Marks

3x10=30

19. What are the steps involved in Vermiculture.
20. With the help of suitable diagrams, explain the structural differences between
A. First Maxilla and Second Maxilla, B. Chelate Leg and Non-Chelate Leg
21. Explain the digestive system of Fresh Water Mussel with a suitable diagram.
22. Give an account of the Conjugation in Paramecium with relevant diagrams.