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School of Biological and Life sciences
Bachelor of Science in General Zoology Botany Chemistry
Mid Term Examination - May 2024

Duration : 90 Minutes
Max Marks : 50

Sem II - P1UE202T - Diversity of Non-Chordates and Chordates

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) Explain Whittaker's Five Kingdom Classification. K2 (2)
- 2) Describe three types of symmetry with examples. K1 (3)
- 3) Explain Carl Woese's Three Domain Classification and discuss its impact on our understanding of evolutionary relationships among organisms. K2 (4)
- 4) Discuss the structure and functions of the different parts of an Obelia colony, including the hydranths, gonophores, and gastrozooids. K2 (6)
- 5) Explain the significance of cilia in the locomotion of Protozoa. Describe the various types of pseudopodia that Protozoa use for movement. K3 (6)
- 6) Evaluate the role of the canal system in the feeding, respiration, and reproduction of sponges, and discuss how these functions are facilitated by the structure of the system. K3 (9)
- 7) Explain the leuconoid type of canal system. K4 (8)
- 8) Discuss the reproductive strategies of Obelia, including both asexual and sexual reproduction. How do these strategies contribute to the survival and dispersal of the species? K4 (12)

OR

Explain the different types of canal system found in poriferans. Draw well labelled diagrams and add a note on the importance of canal system in sponges. K4 (12)