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**School of Biological and Life sciences**  
**Bachelor of Science in General Zoology Botany Chemistry**  
**Mid Term Examination - Nov 2023**

**Duration : 90 Minutes**  
**Max Marks : 50**

**Sem III - C2UD303T - 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) Differentiate between Trophocytes and Thesocytes. K2 (2)
- 2) What is polyp and medusa? K1 (3)
- 3) Describe metagenesis in obelia. K2 (4)
- 4) List and describe the general characteristics of phylum Ctenophora. Discuss its affinities with phylum Cnidaria K2 (6)
- 5) Describe acoelomates and pseudocoelomate with example. K3 (6)
- 6) Describe the mechanism of vision in arthropoda. K3 (9)
- 7) Describe the process of conjugation in Paramecium with the help of a neat labelled diagram. Assess the significance of conjugation in Paramecium. K4 (8)
- 8) Write a short note on the following: a) Parasitic Adaptation in Platyhelminthes b) Locomotion in Paramecium c) Metagenesis in Obelia 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)