

School of Biological and Life sciences**Bachelor of Science in General Zoology Botany Chemistry
Semester End Examination - Jun 2024****Duration : 180 Minutes
Max Marks : 100****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) Define parental care with suitable example. K1(2)
- 2) How does the water vascular system aid in locomotion in echinoderms? K2(4)
- 3) Describe the external and internal anatomy of Herdmania, including its tunic and branchial sac. K2(6)
- 4) Explain how hormones regulate metamorphosis in insects. K3(9)
- 5) Explain the physical characteristics and reproductive strategy of tapeworms. K3(9)
- 6) Discuss the characteristics, life cycle and effect of Taenia on the host organism. K5(10)
- 7) Explain morphology and reproduction in Balanoglossus. K4(12)
- 8) Discuss the classification of Phylum Chordata up to the class level. Describe the key characteristics of each class within Chordata, from the most basal to the most derived, and how they reflect the evolutionary history of chordates. K5(15)
- 9) Explain adaptive radiation in relation to the locomotory appendages in Mammals. K5(15)
- 10) Describe different types of canal system found in Poriferans. Draw a well labelled diagrams and add a note on the importance of canal system in sponges. K6(18)