



UNIVERSITY OF RUHUNA
FACULTY OF FISHERIES AND MARINE SCIENCES &
TECHNOLOGY

Academic Year 2022/2023

Bachelor of Science Honours in Fisheries and Marine Sciences Degree/ Bachelor of
Science Honours in Marine and Freshwater Sciences Degree

Level I Semester II Examinations – April/May 2024

OCG 1222: Marine Biology (Invertebrate Fauna)

Section II

Answer only **Three (03)** questions

Time 1 hour and 30 minutes /75 marks

- 01.) Discuss the morphological diversity of Phylum Cnidaria providing suitable examples. (25 marks)
- 02.)
- i.) With labeled diagrams, describe the structure of the exoskeleton of crustaceans. (10 marks)
 - ii.) Providing labeled diagrams explain the process of ecdysis and its physiological importance for crustaceans. (15 marks)
- 03.) Write short notes on **any three (03)** of the following. (25 marks)
- a.) Radiolarians
 - b.) Unique features of Polychaetes
 - c.) *Squilla sp.*
 - d.) Economic importance of marine molluscs
 - e.) Asconoid canal system of Poriferans
- 04.) Write short notes on **any two (02)** of the following. (25 marks)
- a.) Ecological importance of Ctenophora
 - b.) Body plan of Turbellarians
 - c.) Anthropogenic impacts on marine bivalves
- 05.) “Despite sharing a common body plan, echinoderms are remarkably diverse in their morphology”. Justify this statement providing suitable examples. (25 marks)

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