

BINDURA UNIVERSITY OF SCIENCE EDUCATION
BIOLOGICAL SCIENCES DEPARTMENT
BScBZH
DIVERSITY OF LIFE II (BZH102)

EXAMINATION MARKING GUIDE
2 HOURS (100 MARKS)

 **JAN 2025**

INSTRUCTIONS TO CANDIDATES

Answer **FOUR** questions. You **MUST** answer **QUESTION 1** (Section A) and any **THREE** questions from section B. Each question carries **25 MARKS**. Where a question contains sub-divisions, the mark value of each sub-division is given in brackets. Illustrate your answer where appropriate with large clearly labelled diagrams. You should not spend more than thirty minutes on each question.

Section A (Compulsory)

1. (a) Describe the structural organisation of organisms belonging to phylum Cnidaria. (10 marks)
- (b) Describe reproduction in phylum Porifera. (15 marks)

Section B

2. Describe the general structure and functions of **NAMED** cell types found in phylum Porifera.
3. Describe adaptations of flatworms to parasitic mode of life.
4. Write brief notes on any **FIVE** of the following:
 - (a) Structure of a nematocyst. (5 marks)
 - (b) Functions of the coelom. (5 marks)
 - (c) Protostomes. (5 marks)
 - (d) Economic importance of sponges. (5 marks)
 - (e) Reproduction in nematodes. (5 marks)
 - (f) Torsion in Gastropods. (5 marks)
 - (g) Chordate characteristics of *Branchiostoma*. (5 marks)
5. Justify the inclusion of snails, clams and squids in the same phylum.
6. Outline the diversity in the feeding habits and locomotion in the phylum Arthropoda.

END OF EXAMINATION QUESTION PAPER