

BOWEN UNIVERSITY, IWO
COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE
PURE AND APPLIED BIOLOGY PROGRAMME
2022/2023 FIRST SEMESTER EXAMINATION
BLY 215: BASIC INVERTEBRATE ZOOLOGY

Answer question ONE and any two others.

Time allowed: 2 h 20 min.

1.
 - (a) Enumerate **three** modes of locomotion and the corresponding **four** locomotory organelles in protozoans. (5 marks)
 - (b) List the classes of the phylum Echinodermata, citing a common name each. (10 marks)
 - (c) Discuss the **five** advancements of nematodes over cnidarians. (10 marks)
 - (d) Give **five** characteristics of the sponges (5 marks)

2. Is *Amoeba* unicellular or acellular? Discuss. (20 marks)

3.
 - (a) What characteristics of phylum Platyhelminthes are most important in distinguishing it from phylum Porifera? (10 marks)
 - (b) Discuss any two classes in phylum Cnidaria. (10 marks)

4.
 - (a) Compare and contrast the phyla Annelida and Arthropoda. (10 marks)
 - (b) Write short notes on the following terms: (10 marks)
 - (i) Tagmatization
 - (ii) Metameric Segmentation
 - (iii) Ecdysis
 - (iv) Clitellum
 - (v) Setae/Chaetae

5. Enumerate eight classes of the phylum Mollusca, describe their shell characteristics, and cite an example each. (20 marks)