

BOWEN UNIVERSITY, IWO
PURE AND APPLIED BIOLOGY
BLY 202: BASIC CHORDATE ZOOLOGY
2022/2023 SECOND SEMESTER EXAMINATION

Answer questions **ONE** and any **two** others.

Time allowed: 2 hours 20 minutes.

1. (a) (i) List the **four** classes of the subphylum Urochordata, citing an example each. (8 marks)
(ii) Enumerate the importance/uses of **tunicates** and **lancelets**. (7 marks)
(b) (i) List **ten** functions of the amphibian skin. (5 marks)
(ii) Enumerate **ten** external morphological features of dogfishes. (10 marks)
2. Give a concise account of the **five** hallmarks of all chordates, with emphasis on the **name, location, description, and function**. (20 marks)
3. (a) Discuss on the following: (10 marks)
(i) Placoid scales (ii) Cycloid scales (iii) Ctenoid scales
(b) Highlight **ten** characteristics common to bony fishes. (10 marks)
4. (a) Discuss the life history of Lamprey (class Petromyzontida). (10 marks)
(b) Give a detailed account of five feather types in birds. (10 marks)
5. (a) Describe any **five** distinguishing features of the first true terrestrial tetrapods. (5 marks)
(b) Highlight **five** major constituents of an amniotic egg, stating the importance of each to the embryo. (5 marks)
(c) Discuss the advancements of reptilians over amphibians. (5 marks)
(d) Enumerate any **five** mammalian features. (5 marks)