

UNIVERSITY EXAMINATIONS

1ST SEMESTER 2022/2023 ACADEMIC YEAR

**FIRST YEAR EXAMINATION FOR THE DEGREE
BACHELOR OF SCIENCE (AGED)**

ZOOL 113: GENERAL ZOOLOGY

STREAM: R

TIME: 2 HRS

DAY: TUESDAY [11.30AM – 13.30] DATE: 20/12/2022

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

INSTRUCTIONS: Answer all questions in **Section A (40 Marks)** and two questions in **Section B (30 Marks)**

SECTION A: ATTEMPT ALL QUESTIONS FROM THIS SECTION

QUESTION ONE

- (a) Describe the three types of animal symmetry giving examples of animal phyla in which they are found. (6 Marks)
- (b) State 4 methods used in taxonomy. (4 Marks)
- (c) Briefly describe the patterns of animal body organization. (3 Marks)
- Cytoplasmic level of organization
 - Diploblastic organization
 - Triploblastic organization
- (d) What are the advantages of having the coelom. (3 Marks)

QUESTION TWO

Briefly explain the meaning of these terms: - (10 Marks)

- (a) Ciliophora
- (b) Osculum
- (c) Cnidocytes
- (d) Trematoda
- (e) Rotifera
- (f) Radula
- (g) Setae
- (h) Crustacea
- (i) Holothuroidea
- (j) Amphibia

QUESTION THREE

- (a) Describe 3 types of sponges in Phylum Porifera. (3 Marks)
- (b) Differentiate between Polyp and Medusa in Phylum Cnidaria. (3 Marks)
- (c) What are the distinguishing characteristics of Phylum Platyhelminthes? (2 Marks)

QUESTION FOUR

- (a) What are the morphological differences between Class Aplousophora and Class Polyplousophora. (3 Marks)
- (b) What characteristics distinguish Phylum Annelida from other phyla in the Animal Kingdom. (2 Marks)
- (c) Giving examples describe atleast Classes in Phylum in Echinodermata. (5Marks)

SECTION B (30 Marks) : ANSWER ANY TWO QUESTIONS FROM THIS SECTION

QUESTION FIVE

Using appropriate examples discuss the following: -

- (a) Economic and ecological importance of Phylum Nematoda (5 Marks)
- (b) The importance of the allantoic egg to the existence of Class Reptilia (5 Marks)
- (c) Functions of pheromones in insects (5 Marks)

QUESTION SIX

Write a short essay on migration in Class Aves.

(15 Marks)

QUESTION SEVEN

Discuss the diverse approaches members of Class Pisces employ to ensure success in reproduction.

(15 Marks)

