



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF SCIENCE AND TECHNOLOGY EDUCATION

DEPARTMENT OF SCIENCE, MATHEMATICS AND TECHNOLOGY EDUCATION

PST 6139 ZOOLOGY

Main Examination Paper

First Semester

November 2024

This Examination Paper consists of 2 pages

Time Allowed: 3 hours

Total Marks: 100

Special Requirements: None

Examiner's Name: Mr P Moyo

External Examiner: Dr P Manyanga

### INSTRUCTIONS

1. Answer any 4 questions of your choice
2. Start each question on a fresh page.

### MARK ALLOCATION

QUESTION	MARKS
1.	25
2.	25
3.	25
4.	25
5.	25
<b>TOTAL</b>	100

1. Write an essay on methods and physico-chemical basis of purification of enzymes. [25 Marks]
  2.
    - a. Discuss five animal behaviors and their significance. [15 Marks]
    - b. State the importance of animals in ecosystems; giving specific examples. [10 Marks]
  3. With reference to at least three conditions, outline the biochemical basis of diseases/disorders, diagnosis and treatment. (25 Marks)
  4. Outline the mechanism and action of the enzyme chymotrypsin. [25 Marks]
  5. Describe the key processes of the tricarboxylic acid cycle. [25 Marks]
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