

UNIVERSITY EXAMINATIONS

FIRST SEMESTER 2025/2026 ACADEMIC YEAR

**FOURTH YEAR EXAMINATION FOR THE DEGREE OF
BACHELOR OF EDUCATION (SCIENCE), BSC (GENERAL)**

ZOOLOGY 412: PROTOZOOLOGY

STREAM: R

TIME: 2 HRS

DAY: FRIDAY [2.30 – 4.30 P.M]

DATE: 30/01/2026

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

INSTRUCTIONS: Answer ALL Questions in section A and TWO from Section B

SECTION A: ANSWER ALL QUESTIONS (40 MARKS)

QUESTION ONE

Classify protozoans based on the mode of movement. (5 Marks)

QUESTION TWO

Outline concentration method used in processing stool sample (5 Marks)

QUESTION THREE

State characteristics of phylum apicomplexan (5 Marks)

QUESTION FOUR

Highlight symptoms of Babesiosis (5 Marks)

QUESTION FIVE

Briefly describe diagnostic approaches of African trypanosomiasis (5 Marks)

QUESTION SIX

Highlight symptoms in Chagas disease at “primary lesion stage” (5 Marks)

QUESTION SEVEN

Explain mechanism of transmission of parasitic protozoans’ pathogens. (5 Marks)

QUESTION EIGHT

Give a brief account of intestinal protozoans evade the host immune system (5 Marks)

SECTION B: ANSWER TWO QUESTIONS (30 MARKS)

QUESTION NINE (15 MARKS)

Discuss amoebiasis under following subsections (5 Marks)

a) Morphology

b) Prevention and Control (10 Marks)

QUESTION TEN (15 MARKS)

Discuss importance of parasitic protozoans under the following topics

- a) Negative **(6 Marks)**
- b) Positive impact **(9 Marks)**

QUESTION ELEVEN (15 MARKS)

Using examples, describe the effects of parasites on the host under the following

Sub-section

- a) Destruction of host tissues. **(9 Marks)**
- b) Mechanical interference **(6 Marks)**