

SBL 401EE



ALUPE UNIVERSITY

OFFICE OF THE DEPUTY VICE-CHANCELLOR
ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS

2023 /2024 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER REGULAR MAIN EXAMINATION

**FOR THE DEGREE OF BACHELOR OF
EDUCATION SCIENCE**

COURSE CODE: SBL 401EE

COURSE TITLE: ENTOMOLOGY AND PARASITOLOGY

DATE: 5th DECEMBER, 2023

TIME: 9.00 A.M – 12.00 P.M

INSTRUCTIONS TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

SBL 401EE

REGULAR –MAIN EXAM

SBL 401EE: ENTOMOLOGY AND PARASITOLOGY

STREAM: BED (SCIENCE)

DURATION: 3 Hours

INSTRUCTIONS TO CANDIDATES

- i. Answer ALL questions from section A and any **FOUR** from section B.*
 - ii. Diagrams should be used whenever they deserve to illustrate the answer.*
 - iii. Do not write on the question paper.*
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SECTION A (30 MARKS)

Question One

- a. What is adaptive radiation? (2 Marks)
- b. List the FIVE main characteristics of parasites? (5 Marks)
- c. Describe the following types of organism relationships:
 - i. Parasitism (2 Marks)
 - ii. Commensalism (2 Marks)
 - iii. Symbiosis (2 Marks)
- d. Is pathogenicity similar to virulence? Explain. (3 Marks)

Question Two

- a) Differentiate between the following types of parasites:
 - i. Holoparasite, (2 Marks)
 - ii. Hemiparasite, (2 Marks)
 - iii. Facultative parasite, (2 Marks)
 - iv. Obligate parasite, (2 Marks)
 - v. Endoparasite, (2 Marks)
 - vi. Ectoparasite. (2 Marks)
- b) List any TWO ways of controlling external parasites. (2 Marks)

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SECTION B (40 MARKS)

Question Three

- a. List any TWO human diseases caused by protozoan parasites. (2 Marks)
- b. Using any example, describe the life cycle of a protozoan parasite. (8 Marks)

Question Four

In order to infect a host, parasites apply techniques to aid in their evasion of the protection arising from the host's immune and integumentary systems.

Elaborate on the strategies employed by parasites. (10 Marks)

Question Five

Using specific parasite examples, discuss the following types of hosts: (10 Marks)

- a. Definitive host
- b. Intermediate host
- c. Reservoir host
- d. Paratenic host

Question Six

Account for the various ways through which transmission of parasites happen. (10 Marks)

Question Seven

Through which strategies can the spread of arthropods be controlled? (10 Marks)
