



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR
FOURTH YEAR FIRST SEMESTER
MAIN EXAMINATIONS

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY AND
EDUCATION SCIENCE**

COURSE CODE: SZL 413

COURSE TITLE: PARASITOLOGY AND IMMUNOLOGY

DATE: 25TH MAY 2022

TIME: 8.00 – 10.00 AM

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 3 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

Question One

- i. Mosquitoes are both endophagic and exophilic. Explain. (4 marks)
- ii. List any FIVE factors affecting the distribution of parasites? (5 marks)
- iii. It is ONLY the female *Anopheles* mosquito that can transmit malaria. Explain. (5 marks)
- iv. What are the MAIN differences between the mouthparts of male and female arthropod? (4 marks)
- v. List any FIVE characteristics of Arthropods. (5 marks)
- vi. How do arthropods survive in terrestrial environments? (5 marks)
- vii. Differentiate between Anthropophily and Zoophily. (2 marks)

Question Two

Arthropods are not just hazardous. Discuss. (20 marks)

Question Three

Account for the geographical distribution of the various parasites and the associated diseases. (20 marks)

Question Four

Discuss the disease cycle of any parasitic infection. (20 marks)

Question Five

- i. What is zoonosis? (3 marks)
- ii. In view of climate change, do you envision an increase or decrease in zoonosis? Explain. (7 marks)
- iii. Since the current *Coronavirus* disease 2019 (COVID-19) pandemic is possibly a zoonotic, what do you suggest as the way forward in preventing reoccurrence in future? (10 marks)