



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2020/2021

FOURTH YEAR, FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN ENTOMOLOGY AND PARASITOLOGY

SZL 3401: ENTOMOLOGY II

DATE: AUGUST 2021

TIME: 2 HOURS

INSTRUCTIONS: *Answer question **one** and any other **two** questions*

QUESTION ONE (30 MARKS)

- a) Match one example each of a bacterial, fungal and parasitoid natural enemy with its associated pest in bio-control (3 marks)
- b) Distinguish between
 - i) Primary and secondary pest (2 marks)
 - ii) Systemic and fumigant pesticide (2 marks)
 - iii) Pheromone and kairomone (2 marks)
- c) (i) Highlight the difference between scouting and monitoring (2 marks)
(ii) Explain how sticky traps serve in both pest monitoring and control (4 marks)
- d) Indicate typical responses of storage pests upon exposure to different temperatures (5 marks)
- e) (i) Write explanatory notes on botanicals as naturally occurring insecticides (5 marks)
(ii) Explain why over-reliance on pesticides is discouraged in IPM (5 marks)

QUESTION TWO (20 MARKS)

“Crops from the bean family *Fabaceae* are prone to attack by myriad of insect pests.” Discuss

(20 marks)

QUESTION THREE (20 MARKS)

Describe various insect collection techniques

(20 marks)

QUESTION FOUR (20 MARKS)

Discuss the opportunities and challenges associated with entomophagy

QUESTION FIVE (20 MARKS)

Write an essay on factors contributing to development or deterioration of pest situations (20 marks)