



# 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

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#### 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)