



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATION

2017/2018 ACADEMIC YEAR

FOURTH YEAR SECOND SEMESTER EXAMINATIONS

SCHOOL OF SCIENCE AND INFORMATION SCIENCES

FOR THE DEGREE OF

BACHELOR OF SCIENCE (ZOOLOGY)

COURSE: ZOO 419E

COURSE TITLE: AGRICULTURAL ENTOMOLOGY

DATE: 17TH APRIL, 2018

TIME: 1100 - 1300HRS

INSTRUCTIONS TO CANDIDATE

ANSWER **ALL** QUESTIONS IN SECTION A AND **ANY TWO** IN SECTION B.
ILLUSTRATE YOUR ANSWERS WITH SUITABLE DIAGRAMS AND GIVE
EXAMPLES WHEREVER NECESSARY.

SECTION A: Answer all questions. (30marks)

1. Classify insect pests based on their life cycle. (3mks)
2. Define introduced pest. Give reasons why they cause serious damage.(3mks)
3. List different population densities of insect pests over time. (3mks)
4. State two types of damage caused by insect vectors of plant diseases. (3mks)
5. Explain why insect pest forecasting is important. (3mks)
6. With examples, distinguish deterrents and attractant. (3mks)
7. State the damage caused by Coffee berry borer (*Hypothenemus hampei*).
(3mks)
8. Give reasons why cultural pest control is preferred by farmers. (3mks)
9. List three essentials of Integrated Pest Management. (3mks)
10. Explain how pest resistance to pesticides occurs. (3mks)

SECTION B: Answer any two questions (40 marks)

11. Describe the life cycle, type of damage and control of Diamond back moth (*Plutella xylostella*) **OR** Maize stalk borer (*Busseola fusca*). (20mks)
12. Write notes on pesticides formulations and classification. (20mks)
13. Describe biological pest control and its economic importance. (20mks)
14. Discuss Host plant resistance to insect's pests. (20mks)

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