



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATION

2018/2019 ACADEMIC YEAR

FOURTH YEAR SECOND SEMESTER EXAMINATIONS

SCHOOL OF SCIENCE AND INFORMATION SCIENCES

FOR THE DEGREE OF BACHELOR OF SCIENCE

COURSE CODE: ZOO 419E

COURSE TITLE: AGRICULTURAL ENTOMOLOGY

DATE: 15TH APRIL 2019

TIME: 8.30AM -10.30AM

INSTRUCTIONS TO CANDIDATE

- a) Answer **ANY TEN** questions in section A and **ANY TWO** in section B
- b) Illustrate your answers with suitable diagrams and give examples wherever appropriate.

SECTION A: Answer all question. (30marks)

1. Give reasons why pest identification is important when developing a pest control strategy? **(3marks)**
2. Explain the differences between continuous pests, sporadic pests, and potential pests. **(3marks)**
3. What are the expected goal of farmers whenever they control a pest? **(3marks)**
4. Describe pest monitoring and explain how it can be important to pest control strategy. **(3marks)**
5. List the any three classes of legislative pest control measures in force in different countries. **(3marks)**
6. Explain any three techniques employed in biological pest control **(3marks)**
7. Explain direct damage caused by storage pests **(3marks)**
8. Explain the economic importance of insect vectors in crop production. **(3marks)**
9. Outline the steps taken before you start Integrated Pest Management program in the field. **(3marks)**
- 10.Explain three mechanisms of host plant resistance to insect pests. **(3marks)**

SECTION B: Answer any two questions (40 marks)

- 11.Describe the life cycle, type of damage and control of fall armyworm (*Spodoptera frugiperda*). **(20marks)**
- 12.Classify insecticides taking into consideration their origin, mode of entry, mode of action and the chemical nature of the toxicant. **(20marks)**
- 13.Describe genetic insect pest control techniques. **(20marks)**
- 14.Discuss the environmental effects of pesticides. **(20marks)**

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