



# **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 TITTLE: AGRICULTURAL  
ENTOMOLOGY**

**DATE: 15<sup>TH</sup> APRIL 2019  
-10.30AM**

**TIME: 8.30AM**

---

**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 questions. (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 goals 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 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)**

**//END**