



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATION
2019/2020 ACADEMIC YEAR
SCHOOL OF SCIENCE AND INFORMATION SCIENCES**

**FOURTH YEAR SECOND SEMESTER EXAMINATIONS
FOR THE DEGREE OF BACHELOR OF SCIENCE**

COURSE CODE: ZOO 4134

COURSE TITLE: AGRICULTURAL ENTOMOLOGY

DATE: 10TH DECEMBER, 2019

TIME: 0830-1030HRS

INSTRUCTIONS TO CANDIDATES

- a) Answer **ANY TEN**
- b) Illustrate your answers with suitable diagrams and give examples wherever appropriate.

SECTION A: Answer all question. (30marks)

1. What is a threshold? Why should you consider thresholds when you develop a pest control strategy? (3marks)
2. With examples explain the goals of Pest Control. (3marks)
3. State three factors a farmer should consider while choosing pesticides for vegetables. (3marks)
4. Define pest monitoring and explain its importance in pest management. (3marks)
5. State legislative measures in force to control pests in different countries. (3marks)
6. Describe three techniques used in biological control. (3marks)
7. With examples, explain cyclical disease transmission in insect vectors. (3marks)
8. Outline the damage caused by storage pests in cereals. (3marks)
9. State three mechanisms of Host Plant Resistance. (3marks)
10. Explain sterile male release technique in genetic insect control. (3marks)

SECTION B: Answer any two questions (40 marks)

11. Describe the life cycle, type of damage and control of fall army worm **OR** *Tuta absoluta*. (20marks)
12. State the properties of an ideal pesticide and classify pesticides on the basis of mode of action. (20marks)
13. Discuss Pest Outbreaks in Kenya (20marks)
14. Explain how you would advise on "integrated pest management" (IPM) strategy for farmers in your county. (20marks)

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