

**MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY**

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**University Examinations 2015/2016**

SECOND YEAR, FIRST SEMESTER EXAMINATION FOR DIPLOMA IN AGRICULTURE

**BIO 0112: ENTOMOLOGY & PLANT PATHOLOGY**

**DATE: NOVEMBER, 2015 TIME:** $1½ $**HOURS**

**INSTRUCTIONS:** *Answer question* ***one COMPULSORY*** *and any other* ***two*** *questions.*

**QUESTION ONE – (30 MARKS)**

1. List five characteristics of organisms in class insecta. (5 Marks)
2. Explain briefly the factors responsible for insects great abundance and success(5 Marks)
3. Discuss the damages caused by insects on plants. (4 Marks)
4. Differentiate between parasitic and saprophytic fungi. (2 Marks)
5. List three advantages of chemical pest control. (3 Marks)
6. Explain pest management by pest resistance. (4 Marks)
7. State Koch’s postulates. (5 Marks)
8. Distinguish between hyperplasia and hypertrophy. (2 Marks)

**QUESTION TWO (15 MARKS)**

1. Describe briefly the components of a disease triangle. (5 Marks)
2. Describe the various types of metamorphosis in insects giving examples where they occur. (10 Marks)

**QUESTION THREE (15 MARKS)**

1. Define the following terms; (5 Marks)
2. Necrosis
3. Parthogenesis
4. Oligophagous pests
5. Fumigants
6. Leaf spots
7. Discuss the damages caused by insects on plants. (6 Marks)
8. List any two orders containing agricultural pests and distinguishing characteristics for each. (4 Marks)

**QUESTION FOUR (15 MARKS)**

1. Discuss the various fungal diseases. (10 Marks)
2. Briefly explain five cultural forces that affect pest populations. (5 Marks)