



**MERU UNIVERSITY COLLEGE
OF SCIENCE & TECHNOLOGY**

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University Examinations 2010/2011

FIRST YEAR, FIRST SEMESTER EXAMINATIONS FOR DIPLOMA IN
AGRICULTURAL EDUCATION AND EXTENSION

BIO 0112: ENTOMOLOGY AND PLANT PATHOLOGY

DATE: APRIL 2011

TIME: 1½ HOURS

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

QUESTION TWO – (30 MARKS)

- (a) Explain five factors that make insects the most successful group of animals on earth. (5 Marks)
- (b) Give the importance of studying entomology and plant pathology. (5 Marks)
- (c) Give the control measures of bacterial plant diseases. (5 Marks)
- (d) Give five functions of cuticle in an insect. (5 Marks)
- (e) With aid of a diagram briefly explain disease triangle. (10 Marks)

QUESTION TWO – (15 MARKS)

Discuss the stages in disease cycle. (15 Marks)

QUESTION THREE – (15 MARKS)

Explain strategies used in biological control of plant pest. (15 Marks)

QUESTION FOUR – (15 MARKS)

With aid of a diagram describe the digestive system of an insect. (15 Marks)

QUESTION FIVE – (15 MARKS)

The mouthparts of different insects have been modified to perform different functions, explain various insect mouthparts bringing clearly their modifications. (15 Marks)