



**MERU UNIVERSITY COLLEGE
OF SCIENCE & TECHNOLOGY**

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University Examinations 2011/2012

FIRST YEAR, FIRST SEMESTER EXAMINATION FOR DIPLOMA IN
AGRICULTURAL EDUCATION AND EXTENSION/SECOND YEAR, FIRST
SEMESTER EXAMINATION FOR DIPLOMA IN AGRICULTURE

BIO 0112: ENTOMOLOGY AND PLANT PATHOLOGY

DATE: DECEMBER 2011

TIME: 1½ HOURS

INSTRUCTIONS: Answer question one and any other two questions

QUESTION ONE – (30 MARKS)

- (a) Define the following terms: (3 Marks)
- (i) Virulence
 - (ii) Inoculums
 - (iii) Crop pest
- (b) (i) Distinguish between the terms symptom and sign (2 Marks)
- (ii) Hyperplasia and hypertrophy (2 Marks)
 - (iii) state Koch's postulates (5 Marks)
- (c) Discuss the classification of pesticides according to their mode of action. (10 Marks)
- (d) List three factors that affect the efficiency of pesticides. (3 Marks)
- (e) State five disadvantages of chemical control. (5 Marks)

QUESTION TWO – (15 MARKS)

- (a) Describe the Damping-off disease in respect to:
- (i) Etiology
 - (ii) Symptoms
 - (iii) Control (5 Marks)
- (b) State the control measures of Nematodes. (5 Marks)

QUESTION THREE – (15 MARKS)

Discuss potato/tomato Bacterial wilt under the following headings: (15 Marks)

- (c) Casual Agent
- (d) Symptoms
- (e) Control

QUESTION FOUR – (15 MARKS)

Outline the cultural control of crop pest. (15 Marks)

QUESTION FIVE – (15 MARKS)

- (a) Briefly explain the various factors that have led to the success of insects. (10 Marks)
- (b) List five unique features of arthropods. (5 Marks)