

MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2012/2013

SECOND YEAR, FIRST SEMESTER EXAMINATION FOR DIPLOMA IN AGRICULTURE

BIO 0112: ENTOMOLOGY AND PLANT PATHOLOGY

DATE: AUGUST 2013 TIME: 1½ HOURS

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

ii.

Symptoms

QUESTION ONE (30 MARKS) a) Define the following terms i. Epidemiology (2 Marks) ii. Symptom complex (2 Marks) iii. Susceptibility (2 Marks) iv. Biological pest control (2 Marks) Integrated pest management. (2 Marks) v. b) Explain pest management by pest resistance. (4 Marks) c) Accurate diagnosis is important for effective control of plant diseases. Explain the principles of disease diagnosis. (5 Marks) d) List three advantages of chemical pest control. (3 Marks) e) With the use of an example, explain crop rotation as a method of pest control. (4 Marks) f) State the general characteristics of insects. (4 Marks) **QUESTION TWO (15 MARKS)** a) Explain the disease triangle. (5 Marks) b) Discuss disease management by exclusion. (10 Marks) **QUESTION THREE (15 MARKS)** a) Explain the epidemiology and control of damping off disease. (5 Marks) b) Discuss panama disease of bananas under the following headings. (2 Marks) i. Etiology

(4 Marks)

	111.	Control	(4 Marks)
QUESTION FOUR (15 MARKS)			
a)	Name	e five pest management methods.	(5 Marks)
b)	Discu	ss the mechanical pest control strategy.	(10 Marks)
QUESTION FIVE (15 MARKS)			
a)	Discuss chemical pest control under the following		
	i.	Factors affecting efficiency of pesticides.	(5 Marks)
	ii.	Disadvantages of chemical methods.	(5 Marks)
b) In which ways does each of the following cultural practices control pests?			
	i.	Close season	(3 Marks)
	ii.	Field hygien	(2 Marks)