

# University Examinations 2011/2012

## SECOND YEAR, FIRST SEMESTER EXAMINATIONS FOR DIPLOMA IN AGRICULTURE

# **BIO 0112: ENTOMOLOGY AND PLANT PATHOLOGY**

## DATE: AUGUST 2011

TIME: 1<sup>1</sup>/<sub>2</sub> HOURS

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

## **QUESTION ONE – (30 MARKS)**

(a) Define metamorphosis and explain 'complete metamorphosis'	(10 Marks)	
(b) Explain four characteristics of the class hexapoda.	(8 Marks)	
(c) List any two insect orders containing agricultural pests.	(4 Marks)	
(d) Define a plant disease and explain a plant disease pyramid (disease triangle).		
	(8 Marks)	

# **QUESTION TWO – (15 MARKS)**

Name and explain five natural forces that affect pest populations.	(15 Marks)
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## **QUESTION THREE – (15 MARKS)**

Pesticides can be classified according to how or when they work. Explain the following five groups:

(a) Contact pesticides	(3 Marks)
(b) Systemic pesticides	(3 Marks)
(c) Foliar pesticides	(3 Marks)
(d) Soil-applied pesticides	(3 Marks)
(e) Fumigants	(3 Marks)

## **QUESTION FOUR – (15 MARKS)**

(a) State what you need to know in order to identify and control a pest. (5 Marks)(b) Explain:

(i) Beneficial insects	(5 Marks)
(ii) Neutral insects	(5 Marks)

# **QUESTION FIVE – (15 MARKS)**

Explain the following:

(a) Leaf spots	(5 Marks)
(b) Cankers	(5 Marks)
(c) Damping off	(5 Marks)