

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY UNIVERSITY EXAMINATIONS 2012/2013

2ND YEAR 1ST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN FOOD SECURITY

AGRI-BUSINESS MANAGEMENT

(REGULAR)

COURSE CODE: APT 3216

COURSE TITLE: PRINCIPLES OF PLANT PATHOLOGY

DATE: 19/8/13 TIME: 9.00 – 11.00 AM

DURATION: 2 HOURS

INSTRUCTIONS

- 1. Answer ALL the THREE questions in Section A.
- 2. Answer ANY TWO questions in Section B.
- 3. Write answers Briefly and ELIGBLY.

SECTION A [30 MARKS]

1. Explain the relationshipbetween Epidemiology and Infectivity	[3 Marks]
2. Explain the term inoculum Potential.	[3 Marks]
3. Differentiate between Culturalpest management and biological pest control	[3 Marks]
4 .Explain why the pathogen <i>Phytopthorainfestans</i> is very important in crop production.	[3 Marks]
5. Explain how plant parasitic viruses are transmitted and identified.	[3 Marks]
6.Describe two advantages and twodisadvantages of chemical disease control	[5 Marks]
7. Describe three crop production practices in relation to their influence on disease	
Epidemiology	[5 Marks]
8. Explain the difference between polycyclic and monocyclic pathogens.	[5 Marks]
SECTION B [40MARKS]	
9. Write notes on the following:	
9. Write notes on the following:a) Two techniques to suppress disease inoculum	[6 Marks]
	[6 Marks] [8 Marks]
a) Two techniques to suppress disease inoculum	-
a) Two techniques to suppress disease inoculumb) Factors affecting inoculum potential.	[8 Marks]
a) Two techniques to suppress disease inoculumb) Factors affecting inoculum potential.c) Integrated Pest Management	[8 Marks] [6 Marks]
 a) Two techniques to suppress disease inoculum b) Factors affecting inoculum potential. c) Integrated Pest Management 10. Give an account of how environmental conditions affect disease epidemics.	[8 Marks] [6 Marks] [20 Marks]
 a) Two techniques to suppress disease inoculum b) Factors affecting inoculum potential. c) Integrated Pest Management 10. Give an account of how environmental conditions affect disease epidemics. 11. Explain the following: 	[8 Marks] [6 Marks] [20 Marks] [20 Marks]