



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE IN
HORTICULTURE
SECOND YEAR SECOND SEMESTER 2013/2014 ACADEMIC YEAR

REGULAR

COURSE CODE: AHT 3222

COURSE TITLE: Principles of Crop Protection

EXAM VENUE:LR 3

STREAM: BSc (Horticulture)

DATE: 8/12/14

EXAM SESSION: 2.00 – 4.00PM

TIME: 2.00 HOURS

Instructions:

- 1. Answer ALL question in Section A (compulsory) and ANY TWO questions in Section B.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A **[30 MARKS]**

1. Write short notes on each of the following:
 - (a) Biotic agents of plant diseases. [5 marks]
 - (b) Abiotic agents of plant diseases. [5 marks]
 - (c) Disease incidence. [5 marks]

2. (a) Explain the 3 important factors involved in a disease triangle and indicate why they are important in disease epidemics. [7 marks]
- (b) Weeds can be harmful or useful. Discuss. [8 marks]

SECTION B **[40 MARKS]**

4. Insect pests have different types of mouth parts adopted to suit the food sources and feeding styles.
 - (a) Explain the different types of mouth parts and give examples of pests with such mouth parts. [10 marks]
 - (b) Outline the different types of damages caused by arthropod pests. [10 marks]

5. (a) Outline eight characteristics that make weeds survive harsh environmental conditions. [10 marks]
- (b) Explain the different methods used in the classification of weeds. [10 marks]

6. Discuss the different principles involved in the management of crop pests and diseases. [20 marks]