



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

FOURTH/THIRD YEAR FIRST SEMESTER UNIVERSITY EXAMINATION

2017/2018 ACADEMIC YEAR

REGULAR

COURSE CODE: APT 3313

COURSE TITLE: CROP PROTECTION

EXAM VENUE: LAB 11

STREAMS: Bsc. Agricultural Extension Education

DATE: 18/12/17

Bsc. Agribusiness management

TIME: 2 HOURS

EXAM SESSION: 9.00 – 11.00 AM

Instructions:

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

SECTION A [30 MARKS]

Answer ALL questions from this Section.

1. Describe the following:
 - (i) Pest (2 marks)
 - (ii) Weed (2 marks)
2. State and explain effects of any three major crop pests (6 marks)
3. Explain how crop protection can improve farm productivity (2 marks)
4. Explain the following principles and methods of disease and pest control in crops :
 - (i) Biological (2 marks)
 - (ii) Cultural (2 marks)
5. Explain herbicide selectivity as used in crop protection. (2 marks)
6. State and explain harmful effects of any two common weed in coffee plantations (4 marks)
7. Describe four post-harvest losses to crop farmers (4 marks)
8. Describe export certification as practiced in Kenya (4 marks)

SECTION B [40 MARKS]

Answer ANY TWO questions from this Section.

9. A) Name any six fungal diseases (6marks)
 - B) Describe symptoms and signs of FOUR of the diseases named above. (8marks)
 - C) Outline SIX common management measures in fungal diseases. (6 marks)
10. A) Describe new methods of pest, weed and disease management. (10marks)
 - B) Describe the role of KEPHIS as an inspectorate body in kenya. (10 marks)
11. Discuss any five Insects as crop pests under the following sub-headings
 - A) harmful effects 10 marks
 - B) control. 10 marks