



UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

**THIRD YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
AGRICULTURE (CROP PROTECTION)**

ACP 303/409: PESTICIDES & PHYTOSANITARY REGULATIONS

DATE: APRIL 11, 2017

TIME: 2:00-4:00PM

INSTRUCTIONS:

Answer Question ONE and ANY other TWO Questions

QUESTION ONE (30 MARKS)

- a) A pesticide is as effective as its mode of delivery, using spraying as a mode of delivery, justify this fact (5 Marks)
- b) Outline the major classes of pesticides (5 Marks)
- c) Discuss the botanicals as pesticides (5 Marks)
- d) Why would you advise a farmer to use pesticides? (5 Marks)
- e) Briefly outline how you would guide a farmer to choose a pesticides prior to use (5 Marks)
- f) Outline the role of the Kenya Plant Health Inspectorate Services (KEPHIS) (5 Marks)

QUESTION TWO (20 MARKS)

- a) Discuss the various nerve poisons (10 Marks)
- b) Discuss the procedure followed prior to issuance of a phytosanitary certificate (10 Marks)

QUESTION THREE (20 MARKS)

- a) Highlight the various causes of pesticide resistance (5 Marks)
- b) Pesticide resistance is one of the greatest challenges to the development of effective pesticides and assurance of food security in the World! With particular attention to glyphosate, justify this statement (15 Marks)

QUESTION FOUR (20 MARKS)

- a) Discuss the relationship between pest risk analysis to inspection (10 Marks)
- b) Describe the import inspection process in Kenya (10 Marks)

QUESTION FIVE (20 MARKS)

- a) Although chemical pesticides are very useful in reduced crop losses, they can be life threatening if not properly handled. Discuss the various harmful effects of pesticides to human health and the environment (10 Marks)
- b) Discuss the various routes of entry of pesticides into the human body (10 Marks)

END