



EMBU UNIVERSITY COLLEGE
(A Constituent College of the University of Nairobi)

2015/2016 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

THIRD YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
MANAGEMENT OF AGROECOSYSTEMS

ACP 303: PESTICIDES & PHYTOSANITARY REGULATIONS

DATE: APRIL 6, 2016

TIME: 02:00-04:00

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions

QUESTION ONE

- a) Discuss the major types of pesticide formulations. (5 Marks)
- b) Describe the major groups of insecticides. (5 Marks)
- c) Discuss botanicals as pesticides. (5 Marks)
- d) Discuss plant growth regulators. (5 Marks)
- e) Discuss the various benefits of pesticides. (5 Marks)
- f) All pesticides must be regulated due to the obvious dangers that they pose to human beings and the environment. Several regulatory bodies have been set up World over to oversee the regulation of pesticides one such body is the Kenya Plant Healthy Inspectorate Services (KEPHIS). Outline the specific roles of (KEPHIS). (5 Marks)

QUESTION TWO

- a) Outline the various safety signs used on pesticide containers. (10 Marks)
- b) Discuss plant growth regulators. (10 Marks)

QUESTION THREE

- a) Discuss the various appliances used in application of pesticides. (12 Marks)
- b) i) Malathion is recommended at the rate of 2 kg a.i./ha for the control of armyworm (*Spodoptera exempta*) in maize. Calculate the amount of Cythion (50% EC) required for 6 ha (Cythion is the trade name of Malathion). (4 Marks)
- ii) Cotton jassids (*Amrasca biguttula biguttula*) are controlled with 0.2% Carbaryl. Calculate the amount of Sevin (50% WP) for 1,000 litres of water (Sevin is the trade name of Carbaryl). (4 Marks)

QUESTION FOUR

- a) Discuss pesticide resistance. (8 Marks)
- b) You are out for extension services and you have received several complaints from farmers about widespread crop damage by unknown pests, what methods would you apply to identify the pests? (12 Marks)

QUESTION FIVE

- a) Discuss the general approaches applied in the control of pests. (12 Marks)
- b) Discuss the phytosanitary regulations applied in Kenya. (8 Marks)

--END--