

# EMBU UNIVERSITY COLLEGE (A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)

## **FIRST SEMESTER EXAMINATIONS 2014/2015**

## FIRST YEAR EXAMINATION FOR THE DIPLOMA IN CROP PROTECTION

# ACP 012: INTRODUCTION TO AGRICULTURE AND PRINCIPLES OF CROP PRODUCTION

**DATE: DECEMBER 8, 2014** 

TIME: 13:30 – 15:30

#### **INSTRUCTIONS:**

Answer Question ONE and ANY Other TWO Questions.

### **QUESTION ONE:**

a) Explain the relationship between agriculture and the Kenyan economy. (4 marks)

b) Differentiate:

i) Catch crops from trap crops (2 marks)

ii) Vivipary from apomixis (2 marks)

c) Name three benefits of seed dormancy. (3 marks)

d) State four ways in which cultivated crops are spread from their centres of origin.

(4 marks)

e) State five characteristics of a good nursery for crops. (5 marks)

f) Define the following terms

i) Bio-fertilizers (2 marks)

ii) Biological pest control (2 marks)

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h)	State three objectives of post-harvest processing.	(3 marks)
QUESTION TWO		
a)	Explain the four criteria used to classify cultivated crops.	(8 marks)
b)	Discuss the environmental factors that influence plant growth and reproduction.	
		(12 marks)
QUESTION THREE		
a)	Most groundnut farmers in Kenya do not meet the yield potential of the crop	due to lack of
	quality seed. Explain five advantages of using good quality seeds.	(10 marks)
b)	Explain various methods that can be used to break seed dormancy.	(10 marks)
QU	ESTION FOUR	

g) Explain the concept of conservation agriculture.

Discuss the role of organic matter in the soil.

Explain three types of irrigation systems.

## **QUESTION FIVE**

a)

b)

- a) Explain three principles of crop protection. (6 marks)
- b) Citing relevant examples, explain the losses caused by plant diseases to someone who has no knowledge in crop protection. (8 marks)
- c) Briefly explain the difference between integrated pest control and integrated crop management. (6 marks)

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(3 marks)

(10 marks)

(10 marks)