

## **MACHAKOS UNIVERSITY COLLEGE**

(A Constituent College of Kenyatta University) University Examinations for 2015/2016 Academic Year

#### SCHOOL OF AGRICULTURE & NATURAL RESOURCES

### DEPARTMENT OF AGRICULTURE

# FIRST SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

### **KCU 201: PRINCIPLES OF CROP PRODUCTION**

Date:	WEE	KEND Time: 2 HOURS		
INSTRUCTIONS:				
	Answer Three (3) Questions. Question One Is Compulsory.			
1.	a)	Outline the three principles of crop production.	(6 marks)	
	b)	Explain low altitude influence to rainfall amount of land masses in Kenya		
			(6 marks)	
	c)	Explain effects of mixed cropping systems to final yield.	(6 marks)	
	d)	Describe different propagation methods of coffee and maize	(6 marks)	
	e) With two examples, explain advantages plantation crop production sy		n systems in	
		terms of yield returns	(6 marks)	
2.	Explain any four ways of improving crops production in the semi-arid lands of Kenya		nds of Kenya	
			(20 marks)	
3.	Expla	Explain five forms of fertilizers manufactured for crop production (20 Marks)		
4.	a)	Explain four water- soil conservation techniques	(8 marks)	
	b)	Explain three ways in which cassava root can be preserved to prevent spoilage.		
			(6 marks)	

c) State six crop protection strategies used by framers on food crops at field levels

(4 marks)

- 5. a) Explains any five non-chemical methods for post-harvest crop protection techniques (10 marks)
  - b) Tea is a foreign earner in Kenya. Explain five comparative advantages Kenya has over other countries in East Africa in terms of ecological resources

(10 marks)