

### SECOND YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

## BACHELOR OF SCIENCE IN AGRIBUSINESS AND TRADE KRM 303/AGR203 FIELD CROPS PRODUCTION

#### DATE: 25/7/2019

TIME: 8.30-10.30 AM

#### **INSTRUCTIONS;**

#### Answer ALL questions from Section A and any other TWO from Section B:

#### SECTION A: COMPULSORY: (30 MARKS)

a) Define the following terms as used in crop genetic improvement;

i) Plant Breeding	(2 marks)
ii) Polyploidy	(2 marks)
iii) Pureline	(2 marks)
iv) Clone	(2 marks)
v) Heterosis	(2 marks)

# b) With specific examples, describe **FOUR** types of pre or post-harvest losses associated with crop production (8 marks)

- c) Explain **TWO** types of maturity that determine crop harvesting (4 marks)
- d) Giving relevant examples, explain classification of important crops in Kenya (8 marks)

## SECTION B: Answer any TWO questions (40 Marks)

a) Describe FIVE methods used for the general management of weeds (10 Marks)
b) Explain FIVE important agronomic practices that need to be carried out to realize high maize crop yields (10 Marks)

## **QUESTION THREE**

- a) Giving relevant examples, discuss **FIVE** key roles played by field crops production in the economic development in Kenya (10 Marks)
- b) Describe the suitable climatic and edaphic conditions required for the optimal production of the following major field crops;

i.	Sugarcane	(2 marks)
ii.	Coffee	(2 marks)
iii.	Tea	(2 marks)
iv.	Soybeans	(2 marks)
V.	Wheat	(2 marks)
QUESTION FOUR		

Describe the production of cotton under the following headings;

a)	Planting spacing	(5 marks)
b)	Agronomic practices	(5 marks)
c)	Harvesting	(5 marks)
d)	Processing	(5 marks)