

### DATE: 8/12/2020

TIME: 2.00-4.00 PM

**INSTRUCTIONS:** 

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

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

#### **QUESTION ONE (30 MARKS)**

a)	Describe THREE key principles in a farming system	(3 marks)		
b)	Explain FOUR benefits of blanching vegetables	(4 marks)		
c)	Describe FOUR benefits of vegetative propagation	(4 marks)		
d)	Explain FOUR benefits of "zero tillage"	(4 marks)		
e)	Explain FOUR ways in which temperature affect crop production	(4 marks)		
f)	Explain THREE reasons why weed seeds are difficult to manage	(3 marks)		
g)	Describe the features of "zone III" agroecological zone according to FAO classif	ication		
		(4 marks)		
h)	Explain FOUR functions of abscissic acid	(4 marks)		
SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)				
QUESTION TWO (20 MARKS)				
Explain the following farming systems giving constraints for each one of them				
a)	The coffee-based system	(5 marks)		
b)	Livestock-cereal system	(5 marks)		

c) The group-ranching system (5 marks)
d) The wheat dairy system (5 marks)

# **QUESTION THREE (20 MARKS)**

Citing relevant examples, describe the following methods of plant propagation

a)	Whip grafting	(5 marks)
b)	Cleft grafting	(5 marks)
c)	Chip-budding	(5 marks)
d)	T- budding	(5 marks)

## **QUESTION FOUR (20 MARKS)**

Discuss the following methods of weed control

a)	Biological weed control	(10 marks)
b)	Cultural weed control	(10 marks)

# **QUESTION FIVE (20 MARKS)**

Discuss the advantages and limitation of genetic method of pest and disease control