

MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year
SCHOOL OF AGRICULTURAL SCIENCES
DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION
SECOND YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR
BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION AGR
201: PRINCIPLES OF CROP PRODUCTION

DATE: TIME:

INSTRUCTIONS;

Answer question one and two other questions

OUESTION ONE

a)	Describe TWO categories of farming systems	(4 marks)
b)	Explain FOUR advantages of vegetative propagation	(4 marks)
c)	Explain FOUR negative effects of weeds	(4 marks)
d)	Describe FOUR reasons for crop storage	(4 marks)
e)	Explain FOUR advantages of using resistant varieties in crop protection	(4 marks)
f)	Describe FOUR roles of nitrogen to a plant	(4 marks)
g)	Describe the features of "zone III" agroecological zone according to FAO classification	
		(3 marks)
h)	Explain THREE ways in which light affects crop production	(3 marks)

SECTION B: Answer any TWO Questions (40 Marks)

OUESTION TWO

Describe the following farming systems giving their constraints

a)	The tea-based system	(5 marks)
b)	Sugarcane-based system	(5 marks)
c)	Livestock- cereals system	(5 marks)
d)	Group ranching system	(5 marks)

QUESTION THREE

Discuss FOUR strategies used in biological control of pests and diseases (20 marks)

QUESTION FOUR

Describe the following methods of weed control

a)	Biological weed control	(5 marks)
b)	Chemical weed control	(5 marks)
c)	Cultural weed control	(5 marks)
d)	Mechanical weed control	(5 marks)

QUESTION FIVE

Explain the role, and deficiency symptoms of the following plant nutrients

a)	Phosphorus	(5 marks)
b)	Sulphur	(5 marks)
c)	Boron	(5 marks)
d)	Copper	(5 marks)