

University Examinations for 2018/2019 Academic Year SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRIBUSINESS MANAGEMENT AND TRADE

SECOND YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

HOR 211: PRINCIPLES OF HORTICULTURAL PRODUCTION

DATE: 22/7/2019 TIME: 11.00-1.00 PM

INSTRUCTIONS;

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

SECTION A: COMPULSORY: (30 MARKS)

QUESTION ONE (30 MARKS)

: Elamoultuma

a)	Define the following terms as us	sed in horticultural production

	1.	Floriculture	(1 mark)
	ii.	Olericulture	(1 mark)
	iii.	Viticulture	(1 mark)
b)	Differ	entiate between chilling injury and freezing injury	(4 marks)
c)	Descri	ibe FOUR benefits of organic farming	(4 marks)
d)	Explai	in FOUR limitations of using soil as a plant growing media	(4 marks)
e)	Descri	ibe FOUR sources of CO2 to the greenhouse crops	(4 marks)
f)	Explai	in to her FOUR benefits he would benefit by adopting fertigation	(4 marks)
g)	Descri	be FOUR benefits of using hydroponics in production of crops	(4 marks)
h)	Explain THREE ways in which plant resistance to pests and diseases manifest themselve		themselves
			(3 marks)

(1 monte)

SECTION B: Answer any TWO Questions (40 Marks)

QUESTION TWO (20 MARKS)

Discuss the following regulations and market standards applicable to horticultural produce from Kenya to the European and USA markets

a)	EU directive on quarantine pests	(5 marks)
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b) USDA sanitation protocol for Geraniums (5 marks)

c) Global GAP (5 marks)

d) British Retail Consortium (BRC) (5 marks)

QUESTION THREE (20 MARKS)

Discuss ways in which the following factors affect production of horticultural crops

a) Temperature (10 marks)

b) Light (10 marks)

QUESTION FOUR (20 MARKS)

Describe FOUR ways of breaking embryonic dormancy

QUESTION FIVE (20 MARKS)

Describe how the following factors affect the post-harvest quality of horticultural crops

a) Crop rotation (5 marks)

b) Thinning (5 marks)

c) Weed control (5 marks)

d) Crop protection (5 marks)