

MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRIBUSINESS MANAGEMENT

FOURTH YEAR AND SECOND YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (AGRIBUSINESS MANAGEMENT)

AGR 206: HORTICULTURAL CROPS

DATE: 8/5/2019 TIME: 2:00 – 4:00 PM

INSTRUCTIONS:

Answer Question One and Any Other Two Questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Explain the THREE classifications of fruits based on temperature requirements and give an example for each of the classes (3 marks)
 b) Explain FOUR reasons that have promoted Kenya's horticultural sector (4 marks)
- c) Explain 4 pre-harvest factors affecting the quality of vegetables (4 marks)
- d) Explain THREE ways of preventing water loss on cut-flowers after harvesting
- e) Outline THREE advantages of harvesting cut-flowers at bud stage (3 marks)
- f) Describe FOUR instances where grafting is useful in propagation of fruits (4 marks)
- g) Differentiate between landscape horticulture and interior scaping (2 marks)
- h) Explain FIVE strategies used in biological control of horticultural pests. (5 marks)
- i) Describe two mechanical ways of pest control. (2 marks)

QUESTION TWO (20 MARKS)

Describe the following horticultural production systems

- i) Home gardening
- ii) Market gardening
- iii) Organic gardening
- iv) Commercial horticultural production

QUESTION THREE (20 MARKS)

Discuss FIVE types of marketing horticultural produce

QUESTION FOUR (20 MARKS)

Discuss how the following factors affect production of horticultural crops

i) Temperature	(5 marks)
ii) Light	(5 marks)
iii) Water	(5 marks)
iv) Market	(5 marks)

QUESTION FIVE (20 MARKS)

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

i) EU directive on quarantine pests	(5 marks)
ii) USDA sanitation protocol for Geraniums	(5 marks)
iii) GlobalGAP	(5 marks)
iv) British Retail Consortium (BRC)	(5 marks)