



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 (3 marks)
- 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

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| 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

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| 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) |