



UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

**FOURTH YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
HORTICULTURE**

ACH 406: FLORICULTURE

DATE: APRIL 12, 2017

TIME: 8:30-10:30AM

INSTRUCTIONS:

Answer Question ONE and ANY other TWO Questions

QUESTION ONE

- a) In Kenya cut flowers are exported mostly between October and April, Explain why? (3 Marks)
- b) An agricultural extension officers was advising small scale cut flower growers to form cooperative. Outline the benefit the farmers are likely to gain by forming such a cooperative (6 Marks)
- c) Discuss lath/screen houses as plant house (4 Marks)
- d) With illustrations explain how greenhouse effect occur (6 Marks)
- e) Distinguish between sweetheart and spray type of roses grown in Kenya (6 Marks)
- f) List five (5) distinguishing characteristic that separate orchids flowers from all other plants (5 Marks)

QUESTION TWO

- a) Plant use is the most important criteria used in floriculture classification. Discuss the different divisions based on plant uses (12 Marks)
- b) Describe four ways of reducing temperature in the green house (8 Marks)
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QUESTION THREE

- a) Explain briefly the following aspects of cut flower production in Kenya
- i. Photoperiodism (5 Marks)
 - ii. Gaseous exchange (5 Marks)
- b) Fourth year horticultural students in their field visit observed a cut flower plants with grey spots on the flowers and grey fungal growths developments.
- i) Give a tentative diagnosis of the disease (2 Marks)
 - ii) Discuss how the disease develop (4 Marks)
 - iii) Discuss how to control the disease (4 Marks)

QUESTION FOUR

- a) Kenya is one of the country where cut flower production keep on increasing every year, briefly discuss factors that favour cut flower production in Kenya (8 Marks)
- b) Briefly explain how pinching is done in carnation flower production (12 Marks)

QUESTION FIVE

- a) Describe the soil requirement in the production of Alstroemeria (10 Marks)
- b) Carbon dioxide enrichment is one of the practice recommended in cut flower production discuss the importance and explain how its achieved. (10 Marks)

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