

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
HORTICULTURE**

HORT 361: FLORICULTURE 1 (MAJOR CUT FLOWERS)

STREAMS: BSC HORT

TIME: 2 HOURS

DAY/DATE: MONDAY 16/12/2024

2.30 P.M – 4.30 P.M.

INSTRUCTION

- The paper contains section A&B
- Answer all questions in section A and any two from section B
- Marks for each question are indicated in parenthesis ()
- Total marks = 70

SECTION A (30 MARKS)

1. Briefly explain how each of the following factors affect cut flower post-harvest
 - i. High temperature (1 mark)
 - ii. Air embolism (1 mark)
 - iii. Water quality (1 mark)
2. Outline briefly the procedure for establishing support system in carnation (5 marks)
3. i) Physiological disorders are a common occurrence in rose plants. With examples, describe the causes of any three physiological disorders. (6 marks)
ii). Explain how farmers ensure cold chain management (5 marks)
- 4i). Describe how to prepare a homemade flora preservative. (6 marks)
ii). Describe the packhouse operations applicable in Erygium production (5 marks)

SECTION B: ANSWER ANY TWO QUESTIONS 40 MARKS

- 5 a). Give a detailed account of the challenges facing export cut flower production in Kenya (10marks)
- b). ‘**Cleanliness**’ is key in postharvest handling of cut flowers. Develop a checklist for a packhouse supervisor to ascertain cleanliness during cut flower handling (10 marks)

- 6 a). Discuss national and global benefits of certification to cut flower growers. (10 marks)
- b). Describe the establishment and maintenance of statics. (10 marks)
- 7 a). Describe the cultural practices applicable to carnation production. (10 marks)
- b). Discuss the effects of temperature and light intensity on growth and quality of cut flowers. (10 marks)
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