

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

HORT 361: MAJOR CUT FLOWER PRODUCTION

STREAMS: BSC. HORT Y3S1

TIME: 2 HOURS

DAY/DATE: TUESDAY 04/12/2018

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- **This paper contains section A and 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. Explain the essence of carrying out the following operations in rose flower production:
 - (i) Removal of wild shoots (1 mark)
 - (ii) Cutting of die backs (1 mark)
 - (iii) General cleaning to remove dry leaves (1 mark)
 - (iv) Cutting of old bending material (1 mark)
 - (v) Timely desuckering (1 mark)
2.
 - (a) Describe briefly three physiological disorders of carnation flower. (6 marks)
 - (b) Describe the major determinants of quality in Gladiolus cut flowers. (3 marks)
3.
 - (a) Describe briefly the procedure of planting young rose grafted/budded plants. (4 marks)
 - (b) Explain how initial costs affect cut flower production enterprise among the farmers in Kenya. (6 marks)
4. Water analysis is paramount in cut flower production. Justify the statement. (6 marks)

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

5. (a) Discuss the general challenges facing cut flower growers in Kenya. (10 marks)
- (b) Describe the environmental requirements for rose flower production. (10 marks)
6. (a) Describe the harvesting of roses. (8 marks)
- (b) Explain briefly major aspects to consider while harvesting rose cut flower. (12 marks)
7. (a) Describe the effect of day length on quality and productivity of *Alstroemiria* (8 marks)
- (b) Discuss the factors that affect the postharvest life of cut flowers. (12 marks)
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