



UNIVERSITY

## UNIVERSITY EXAMINATIONS

### EXAMINATION FOR THE AWARD OF DIPLOMA IN HORTICULTURE

HORT 0261: FLORICULTURE 1 (MAJOR CUT FLOWERS)

STREAMS: Bsc. Dip HORT Y2S2

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 22 /09/ 2021

11.30 AM – 1.30 PM

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#### INSTRUCTIONS TO CANDIDATES:

- The 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 (40 MARKS)

1. Explain the importance of the following special operations in rose or carnation flower production;
  - i. Mother shoot bending [2 Marks]
  - ii. Removal of wild shoots [2 Marks]
  - iii. Pinching in carnation [2 Marks]
  - iv. Application of bud caps [2 Marks]
  
2. State three symptoms of damage and two control measures of the following

pest and disease of economic importance in flower production.

i) Red spider mites [5 Marks]

ii) Powdery mildew [5 Marks]

3. a) Describe the main sources of bending material in rose flower. [4 Marks]

b) Briefly describe any three physiological disorders in carnation. [6 Marks]

4. a) What are the important characters in any cultivar of rose for its use as cut flower?. [7 Marks]

b) Describe the objectives of pinching in roses. [5 Marks]

**SECTION B: ANSWER ANY TWO QUESTIONS, EACH QUESTION 15 MARKS**

5. a) Describe the factors that affect post-harvest longevity of Arabicum. [10 Marks]

b) Describe the main packhouse operations with regard to Statice production. [5 Marks]

6. a) Describe how carnations are propagated by terminal stem cuttings. [10 Marks]

b) Discuss the main challenges facing cut flower growers in Kenya. [5 Marks]

7. a) Describe an Integrated Pest Management (IPM) strategy for managing pests in cut flower production. [10 Marks]

b) Describe any five important diseases of rose plants. [5 Marks]

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