

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF BACHELOR DEGREE IN

HORT 111: PRINCIPLES AND PRACTICES OF HORTICULTURE

STREAMS: BSC. HORT (Y1 S1)

TIME: 2 HOURS

DAY/DATE: MONDAY 14/12/2020

2.30 P.M -4.30 P.M.

INSTRUCTIONS TO CANDIDATES:

- 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. i) Briefly explain why planting material is one of the main constraints to development of the Horticulture industry in Kenya. [4 Marks]
2. ii) Describe the key intentions of pruning in fruit trees. [5 Marks]
- 2.i) A farmer noticed Phosphorus deficiency on young cabbage plants in his farm. If he has to apply fertilizer to improve growth, explain why manure may not be the best option. [4 Marks]
- ii) Explain briefly the factors that affect the rate of decomposition of humus.[5 Marks]
3. Describe the role of the Kenyan government in improving the Horticulture sector. [5 Marks]
4. i) Describe the methods of pest control a farmer should adopt to achieve IPM in horticultural crop production. [3 Marks]
- ii) Explain why weeds are considered invasive in Horticulture. [4 Marks]

SECTION B

- 5.i). Explain why you would advise citrus farmers to establish their crop through vegetative means. [10 Marks]
- ii). Describe the different methods of applying liquid fertilizers. [10 Marks]
- 6.i) Briefly write shorts on the different cropping systems in Horticulture. [10 Marks]
- ii). Describe different methods of weed control. [10 Marks]
- 7.i). Giving examples describe the effect of environmental factors on growth and development of horticultural crops. [12 Marks]
- ii). Briefly explain the management of greenhouse microclimate. [8 Marks]

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