

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS
RESIT/SPECIAL EXAMINATION**

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

HORT 341: TROPICAL AND SUB TROPICAL FRUITS

STREAMS: BSC HORT

TIME: 2 HOURS

DAY/DATE: FRIDAY 05/11/2021

11.30 A.M – 1.30 P.M.

INSTRUCTIONS

1. The paper contains section A and B
2. Answer all questions in section A and any two from section B
3. Marks for each question are indicated in parenthesis ()
4. Total marks = 70

SECTION A (TOTAL MARKS 30) ANSWER ALL QUESTIONS

- 1 a). Describe the important operations in banana growing (4 Marks)
- b). Differentiate between carapaces and cukes affecting avocado fruits (2 Marks)
- 2). Explain the following with respect to fruit production. (4 Marks)
- i) Quincunx orchard layout
- ii). Describe the main components of fruit tree nursery (4Marks)
- 3). Write short notes on the following; (5 Marks)
- (i) Procedure involved in planting fruit trees
- (ii) Giving an illustration explain the Q10 theory (5 Marks)

- 4a) Explain the main challenges faced by papaya farmers in Kenya and how can they be overcome (4 Marks)
- b) Describe the methods of weed control in fruit orchards (2 Marks)

SECTION B: (TOTAL MARKS 40) ANSWER ANY TWO QUESTIONS

- 5a) Discuss the probable causes of unfruitfulness fruit orchards. (10 Marks)
- b) Discuss the various methods of inducing fruitfulness. (10 Marks)

- 6 a) The standard of living of the people of a country is dependent upon the production and per capita consumption of fruits. Explain the economic benefits of fruits (10 Marks)
- b) With examples, describe the pre-harvest maturity indices that could guide harvesting of various fruits (10 Marks)

- 7 a) Explain the advantages and challenges of using the tissue culture technique for multiplication of banana seedlings (10 Marks)
- b) Give a detailed explanation of the factors that affect fruit distribution in Kenya (10 Marks)
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