

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FOURTH YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN HORTICULTURE

HORT 442: TEMPERATE ZONE FRUITS

STREAMS: B.SC. AGED (Y4S1)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 24/3/2021
AM

8.30 AM – 10.30

INSTRUCTIONS:

- This paper has two Sections A and B.
- Section A accounts for 30 marks while Section B accounts for 40 marks
- Section A is compulsory
- Answer any two questions in Section B

SECTION A (30 MARKS) : ANSWER ALL QUESTIONS

- 1a. Giving relevant examples, describe grouping of horticulture fruits. [6
Marks]
- b. Describe symptoms of dormancy in tropical climates. [5
Marks]
- 2.a. Define the term pruning. [2
Marks]
- b. Describe the reasons for pruning. [5
Marks]
3. Discuss rejuvenation pruning. [5 Marks]
4. Describe propagation of temperate fruit crops. [5
Marks]

SECTION B

5. Discuss the following sub-headings under apple production

- i) Rainfall requirements [5 Marks]
- ii) Qualities of a good rootstock [5 Marks]
- iii) 1 in 4 orchard layout [5 Marks]
- iv) Harvesting and storage [5 Marks]

6. Discuss strawberries production under the following sub-headings.

- i) Ecological requirements [9 Marks]
- ii) Deflowering [4 Marks]
- iii) Maturity and Harvesting [7 Marks]

7. Discuss the following aspects under grape production.

- i) Any (2) types of trellis system used in Kenya. [10 Marks]
- ii) Downey mildew disease. [5 Marks]
- iii) Berry thinning. [5 Marks]

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