

CHUKA



UNIVERSITY

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**EXAMINATION FOR THE AWARD OF
DIPLOMA IN AGRICULTURE, HORTICULTURE**

HORT 0242: FRUIT PRODUCTION

STREAMS: DIP (AGRI Y2S2), & (Y1S2), DIP HORT (Y1S2)

TIME: 2 HOURS

DAY/DATE: TUESDAY 6 /07/ 2021

11.30 AM – 1.30 PM

INSTRUCTIONS:

- Answer All Questions in Section A and Any Two Questions in Section B
- Do not write on the question paper

SECTION A: [40 MARKS] – ANSWER ALL QUESTIONS

QUESTION ONE

- (a) Briefly describe the various types of orchard layouts. [3 Marks]
- (b) Explain any three (3) methods of a sexual propagation for fruit trees. [3 Marks]
- (c) Describe five (5) factors considered in the selection of a suitable fruit tree nursery site. [3 Marks]

QUESTION TWO

- (a) Describe any five (5) objectives of training and pruning fruit trees. [5 Marks]
- (b) Describe any five (5) factors considered during root stock selection in avocados. [3 Marks]
- (c) Describe the ecological requirements for establishment of papaya. [3 Marks]

Marks]

QUESTION THREE

- (a) Describe briefly any three reasons for biennial bearing in mangoes and give the appropriate control measures for this. [5 Marks]
- (b) Describe any five ways in which pineapples are utilized. [3 Marks]
- (c) Briefly outline the ecological requirements for establishment of citrus. [3 Marks]

QUESTION FOUR

- (a) Describe the post-harvest treatments done for avocados. [4 Marks]
- (b) Using examples, distinguish between climacteric and non-climacteric fruits. [3 Marks]
- (c) Briefly outline four (4) advantages of vegetative propagation in fruit trees. [2 Marks]

SECTION B: [30 MARKS] – ANSWER ANY TWO QUESTIONS

QUESTION FIVE

- (a) Discuss the special operations carried out during banana production. [7 Marks]
- (b) Discuss any ten (10) benefits of fruits farming in Kenya. [8 Marks]

QUESTION SIX

- (a) Discuss the post-harvest factors affecting the quality of fruits. [7 Marks]
- (b) Discuss the challenges facing fruit farming in Kenya. [8 Marks]

QUESTION SEVEN

(a) Discuss the indicators that are used to determine maturity of fruits. [7 Marks]

(b) Discuss the challenges facing fruit farming in Kenya. [8 Marks]

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