

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS
RESIT/SPECIAL EXAMINATION**

EXAMINATION FOR THE AWARD OF DIPLOMA IN

HORT 0242: FRUIT PRODUCTION

STREAMS: DIPLOMA

TIME: 2 HOURS

DAY/DATE: FRIDAY 01/09/2023

11.30 A.M – 1.30 P.M.

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 classification of fruits based on morphology. (4marks)
- (b) With illustrations, explain the Quincunx/diagonal method of orchard layout. (3marks)
- (c) Explain Plant Spacing as principle of successful fruit production in an orchard (3marks)

Question two

- (a) Describe Open-Centre training System of fruit trees [5 Marks]
- (b) Briefly explain the economic advantages associated with fruit production (7marks)
- (c.) Describe Panama Disease (Fusarium Wilt) in bananas and advise farmers on the best control methods. (5marks)

Question Three

- (a) Describe the ecological requirements for avocado production (5marks)
- (b) Pre-cooling is an important post- harvest handling procedure for fruit crops. Advise farmers on the benefits of precooling in avocados (5marks)

(c) Describe briefly the reasons why Giant Cavendish variety of bananas is preferred by farmers in Kenya [3 Marks]

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

Question four

- (a) Discuss the special operations carried out during banana production. (7marks)
- (b) Discuss the challenges facing fruit farming in Kenya. (8marks)

Question five

- (a) Discuss the post-harvest factors affecting the quality of fruits (8marks)
- (b) Classification of fruits based on climate adaptability is categorized into three recognized groups. Discuss (7marks)

Question Six

- (a) Discuss the indicators that are used to determine maturity of fruits (8marks)
 - (b) Biennial/alternate bearing in mangoes is of concern to fruit growers. Discuss the causes and possible control measures for it (7marks)
-