# HORT 341

CHUKA



### UNIVERSITY EXAMINATIONS

### THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOF OF SCIENCE IN HORTICULTURE

### HORT 341: TROPICAL AND SUB TROPICAL FRUITS

### **STREAMS: BSC (HORT)**

### **TIME: 2 HOURS**

2.30 P.M. – 4.30 P.M.

### DAY/DATE: THURSDAY 06/04/2020

**INSTRUCTIONS:** 

- This paper contains section A and 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 (TOTAL MARKS 30) – ANSWER ALL QUESTIONS

1.	(a)	Classify tropical and sub-tropical fruits based on branching habit and growth type		
			[4 marks]	
	(b)	Differentiate between carapaces and cukes affecting avocado fruits	[4 marks]	
2.	(a)	Explain the economic importance of tropical and sub-tropical fruits	[3 marks]	
	(b)	Explain formative and structural pruning of mangoes	[4 marks]	
3.	(a)	Describe the three horticultural races of avocado fruit found in Kenya	[6 marks]	
	(b)	Scanty flowering is the main reason for disappointing yields in fruits in	the tropics	
		and sub tropics. Explain the causes of scanty flowering	[3 marks]	
4.	(a)	Explain how the citrus tree can be maintained in the tropical and sub-tr	d sub-tropical	
		climates (any four)	[2 marks]	
	(b)	Explain the main challenges faced by papaya farmers in Kenya and how they can		

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# SECTION B: TOTAL MARKS 40 (ANSWER ALL QUESTIONS)

4.	(a)	Discuss the potential negative impacts of climate change on tropical and sub-		
		tropical fruit production.	[10 marks]	
	(b)	Suggest adaption and mitigation strategies to deal with the impacts ide	the impacts identified in	
		(a) above	[10 marks]	
5.	(a)	Explain the common challenges that affect mango production in Keny	Kenya	
			[10 marks]	
	(b)	Describe propagation, planting, harvesting and grading of pineapples	[10 marks]	
6.	(a)	Discuss the causes of low productivity in tropical and sub-tropical fruit	cal fruits	
			[10 marks]	
	(b)	Explain the advantages and challenges of using the tissue culture technique for		
		multiplication of banana seedlings	[10 marks]	

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