CHUKA



UNIVERSITY

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

HORT 323: INTRODUCTION TO GREENHOUSE MANAGEMENT

STREAMS: BSC (HORT) **TIME: 2 HOURS**

DAY/DATE: WEDNESDAY 15/04/2020 8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- The 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

1.	(a)	Define the term greenhouse	[2 marks]			
	(b)	Describe factors to consider in site selection of a greenhouse	[6 marks]			
2.	Expla					
	(a)	Greenhouse effect	[6 marks]			
	(b)	CO2 enrichment	[6 marks]			
3.	Descr	cribe classification of greenhouses according to cladding material [6 marks]				
4.	Describe properties of a polyfilm [4 marks]					
SECTION B (40 MARKS) – ANSWER TWO QUESTIONS						
SECT	TION B	3 (40 MARKS) – ANSWER TWO QUESTIONS				
SEC7 5.	(a)	B (40 MARKS) – ANSWER TWO QUESTIONS Discuss temperature control in greenhouse environment	[8 marks]			
			[8 marks]			
	(a)	Discuss temperature control in greenhouse environment	[12 marks]			
5.	(a) (b)	Discuss temperature control in greenhouse environment Discuss cultural and plant factors influencing plant growth	[12 marks]			
5.	(a) (b)	Discuss temperature control in greenhouse environment Discuss cultural and plant factors influencing plant growth Discuss the following growing media as used in greenhouse crop pro-	[12 marks]			

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	(b)	Discus	[6 marks]		
7.	(a)	Discuss damping off of seedlings under the following subheadings:			
		(i)	Causal agent	[3 marks]	
		(ii)	Symptoms	[4 marks]	
		(iii)	Control	[5 marks]	
	(b)	Discus	ss mechanisms of biological control of plant pathogens	[8 marks]	