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EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN

BOTA 361: PLANT ECOLOGY

STREAMS:	TIME: 2 HOURS
DAY/DATE: THURSDAY 08/07/2021	8.30 A.M – 10.30 A.M

INSTRUCTIONS:

Answer all questions in section A and any other two in section B

SECTION A (30 MARKS)

1.	Define the following terms;	
	(a) Synecology	[1 mark]
	(b) Community ecology	[1 mark]
	(c) Biodiversity	[1 mark]
	(d) Ecosystem	[1 mark]
	(e) Ecological efficiency	[1 mark]
2.	Classify hydrophytes based on habitat and location in ponds.	[5 marks]
3.	Differentiate between r- and k- strategies of species reproductive patterns. [5 marks]	
4.	Explain the reasons why ecological pyramids are not often used in research. [5 marks]	
5.	With help of a diagram describe the logistic population growth curve.	[5 marks]
6.	Describe the types of plant life forms based on position of perennating bud.[5 marks]	

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SECTION B (40 MARKS)

7.	Discuss a tropical rain forest in terms of climate, stratification and adaptations.		
		[20 marks]	
8.	Discuss the following:		
	(a) Parameters of assessing plant structure and function.	[10 marks]	
	(b) Methods of sampling plant communities.	[10 marks]	
9.	Discuss plant species interactions in a community.	[20 marks]	