CHUKA



UNIVERSITY

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SPECIAL/SUPPLEMENTARY

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE

BOTA 241: TAXONOMY OF HIGHER PLANTS

STREAMS: BSC TIME: 2 HOURS

DAY/DATE: THURSDAY 12/8/2021 8.30 A.M. – 10.30 A.M.

INSTRUCTIONS TO CANDIDATES:

- Answer all questions in section A and any other two in section B
- Elaborate with diagrams wherever appropriate

SECTION A (30 MARKS)

1.	With the aid of a diagram, briefly discuss a cladogram	(5 marks)
2.	a. Define a dichotomous key	(1 mark)
	b. Briefly explain the different types of dichotomous keys	(4 marks)
3.	Elaborate the following in the Family Fabaceae:	
	a. Distinguishing characteristics	(5 marks)
	b.Economic importance	(5 marks)
4.	List the general principles of the ICBN	(5 marks)
5.	Discuss the formation of a genus name when taken from a person's name	(5 marks)

SECTION B (40 marks)

- 6. a. Discuss the types of classification systems (6 marks)
 - b. Describe the categories of taxa from the highest to the infra-specific and indicate their endings (14 marks)

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/.	Discuss the following:	
	a. Species concepts	(6 marks)
	b. Mechanisms of speciation	(14 marks)
8.	Elaborate plant collection and herbarium techniques	(20 marks)