BOTA 241

UNIVERSITY

CHUKA



UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION

BOTA 241: TAXONOMY OF HIGHER PLANTS

STREAMS: BSC (BOTA)

TIME: 2 HOURS

DAY/DATE:FRIDAY 26/03/20218.30 A.M. – 10.30 A.M.INSTRUCTIONS:Answer ALL questions in section A and any TWO from section B

1. Define the taxon that ends with the following endings:

(a)	-aceae	[1 mark]
(b)	-mae	[1 mark]
(c)	-ales	[1 mark]
(d)	-phyta	[1 mark]
(e)	-oideae	[1 mark]

2. List ways in which common names are derived giving an example in each case

		[5 marks]
3.	Outline the rules of writing a scientific name	[5 marks]
4.	Identify the endings of a genus name when commemorating a person	[5 marks]
5.	Describe the species concepts in biosystematics	[5 marks]
6.	Explain the general 'types' that are identified by the ICBN	[5 marks]

SECTION B (40 MARKS)

7. Discuss distinguishing characteristics and economic importance of the following plant families:

(a)	Euphorbiaceae – Castor family	[10 marks]
(b)	Fabaceae – Legume family	[10 marks]

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8.	(a)	Define a botanical key and differentiate the two main types	[10 marks]
	(b)	Discuss the basic rules of constructing and using a dichotomous key	[10 marks]
9.	(a)	Discuss the record of data collection and field observations that should be	
		written in a field notebook.	[10 marks]
	(b)	Elaborate how plants are pressed during preservation of specimens	[10 marks]
