BOTA 241

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE IN BACHELOR OF

BOTA 241: TAXONOMY OF HIGHER PLANTS

TIME: 2 HOURS

11.30 A.M – 1.30 P.M

DAY/DATE: MONDAY 4/12/2017

INSTRUCTIONS:

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

SECTION A (30MARKS)

1.	(a) State five disadvantages of common names.	[5marks]	
	(b) Explain the components of a scientific name.	[5marks]	
2.	Define the species concepts that are utilized in biosystematics.	[5marks]	
3.	Identify the endings of a genus name when commemorating a person. [5marks]		
4.	With the help of a diagram, explain how plant evolution has taken place over time. [5marks]		
5.	Elaborate the general principles of the ICBN.	[5marks]	
SECTION B (40MARKS)			
6.	(a) Discuss the 3 classification systems citing an example for each system [6marks]	1.	

(b) Discuss the mechanisms of speciation. [14marks]

BOTA 241

7.	(a) Outline the information required during plant data collection in the	t data collection in the field.	
		[10marks]	
	(b) Discuss the distinguishing characteristics of the following plant families:		
	(i) Euphorbiaceae – castor family.	[5marks]	
	(ii) Fabaceae – legume family.	[5marks]	
8.	•••	rentiate between the two main types of dichotomous keys and give an example in e. [10marks]	
	(b) Discuss the basic rules for constructing and using a dichotomous k	ey. [10marks]	
