



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS **2020/2021 ACADEMIC YEAR**

SECOND YEAR FIRST SEMESTER MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE AND BACHELOR OF SCIENCE IN: AGRICULTURAL BIOTECHNOLOGY, AND AGRICULTURAL EDUCATION & EXTENSION

COURSE CODE:

SBT 211./SBT 211

COURSE TITLE:

SYSTEMATICS AND PLANT TAXONMY/PLANT

TAXONOMY

DATE: Wednesday 16th June, 2021.

TIME:

2:00 -4:00 p.m.

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

QUESTION ONE

a.	Define the following terms		
	i. Systematics	(1 Mark).	
	ii. Nomenclatural type	(1 Mark).	
	iii. Taxonomy	(1 Mark).	
b.	Distinguish the various forms of classification	(3 Marks).	
c.	Outline the problems facing modern methods of plant systematics	(3 Marks).	
	Provide the rationale for periodic remodelling of plant taxa	(3 Marks).	
	Illustrate how taxa ABC can be related in a non-redundant way	(3 Marks).	
	Enumerate the contributions of Theophrastus to modern day taxonomy		
1.	Entire title continuations of Theophiastas to modern day taxon	(3 Marks).	
σ	g. With an example explain how you would distinguish character states		
٥.	with an example explain now you would distinguish character state	(3 Marks).	
h	Illustrate a typical COMPOSITAE flower	(3 Marks).	
i.			
	taxonomy	(3 marks).	
j.	Outline the various type specimens in taxonomy	(3 marks).	
J.	common and turned type specimens in tunionenty	(5 11111115).	
2.	Describe the procedure of preparing a Herbarium specimen (20 Marks).	
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3.	3. Describe the distinguishing characteristics of LEGUMINOSAE, APIACEAE		
		(20 Marks).	
4. Discuss phylogenetics and taxonometrics as methods in plant taxonomy			
		(20 Marks).	
5.	Write an Essay on the procedure for preparing diagnostic Keys	(20 Marks).	