

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES / SCHOOL OF FOOD AND **AGRICULTURAL SCIENCES**

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF BACHELOR **OF SCIENCE IN BIOLOGICAL SCIENCES**

SECOND YEAR FIRST SEMESTER 2018/2019 ACADEMIC YEAR

MAIN CAMPUS - REGULAR

COURSE CODE: COURSE TITLE: SBT 201/ SBI 3225/ AHT 3215

GYMNOSPERM AND ANGIOSPERM

TAXONOMY/ PLANT TAXONOMY AND IDENTIFICATION

EXAM VENUE:

DATE:

STREAM: (BSC)

EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer ALL questions in Section A and Any two questions in Section B
- 2. Candidates are advised not to write on question paper
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room

SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)

1.	Outline the problems encountered in modern methods of plant taxonomy		
	today	(3 Marks)	
2.	fferentiate between Phenetic, phylogenetic and artificial classification		
	systems.	(3 Marks)	
3.	List the key points of the Englerian evolutionary principles that	y points of the Englerian evolutionary principles that were	
	challenged by Ranalian School?	(3 Marks)	
4.	the contributions of Theophrastus to present day Plant classification.		
	(3 Marks)		
5.	Comment on author citation in botanical nomenclature	(3 Marks)	
6.	With illustrations distinguish between a "panicle", "raceme" and "spike"		
		(3 Marks)	
7.	lucidate the major areas where current plant taxonomic activities largely		
	concentrate on	(3 Marks)	
8.	a. Explain what a type specimen is.	(2 Marks)	
	b.Which system is adopted at the herbarium in the National Museums of		
	Kenya for arranging herbarium specimens.	(1 Mark)	
9.	Show how you would distinguish "character states" of a named (3 Marks)	l character.	
10	. Illustrate a flower of a typical Asteraceae	(3 Marks)	
SECTION B ESSAY QUESTIONS [40 Marks]			
11.Trace the history of plant classification highlighting the milestones of each			

phase.	(20 Marks)	
12.Write an easy on the gymnosperm phyla.	(20 Marks)	
13.Describe the distinguishing characteristics of the families Asteraceae and		
Fabaceae.	(20 Marks)	

14. Discuss phylogenetics and cladistics as methods in plant taxonomy

(20 marks)