

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE WITH IT & BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES 1st YEAR 2nd SEMESTER 2018/2019 ACADEMIC YEAR MAIN CAMPUS - REGULAR

COURSE CODE:	SBT 102/SBI 3123	3	
COURSE TITLE:	SURVEY OF THI	SURVEY OF THE PLANT KINGDOM	
EXAM VENUE:	LR 1	STREAM: (BED/BIO)	
DATE:	30/04/2019	EXAM SESSION: 9.00-11.00AM	
	XO*		
TIME: 2 HOURS	0		

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.	Explain the evolutionary adaptations that enabled plants to overcome challenges of living on		
	land	(3 marks)	
2.	Using a diagram illustrate the transverse section of a pinus leaf	(3 marks)	
3.	Outline the characteristics that distinguish Pteridophytes from flowering	g plants (3 marks)	
4.	Describe terrestrial adaptations of vascular plants	(3 marks)	
5.	Explain how conifers are adapted to their ecological niche	(3 marks)	
6.	Explain the three evolutionary innovations observed in the evolution of the plant kingdom		
		(3 marks)	
7.	Using a diagram illustrate alternation of generations in Bryophytes	(3 marks)	
8.	Explain three forms of gametic fusion in lower plants	(3 marks)	
9.	Elucidate the structural characteristics of Spirogyra	(3 marks)	
10.	Describe sexual reproduction in Fungi	(3 marks)	
	SECTION B: ESSAY QUESTIONS (40 MARKS)		
11.	Discuss the characteristics of the main groups in Fungi	(20 marks)	
12.	Discuss ecological adaptations of Algae	(20 marks	
13.	Discuss the taxonomic divisions in gymnosperms	(20 marks)	

14. Write an essay on the characteristics of Pgeridophytes (20 marks)