

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES

UNIVERSITY EXAMINATIONS FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE WITH IT AND BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES

FIRST YEAR FIRST SEMESTER EXAMINATION 2018 /2019 ACADEMIC YEAR MAIN CAMPUS - REGULAR

COURSE CODE:	SBT 103/ SBI 3123
COURSE TITLE:	INTRODUCTORY PLANT SYSTEMATICS
EXAM VENUE:	STREAM: (B.ed/BIO)
DATE:	EXAM SESSION:
TIME: 2 HOURS	

Instructions:

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

SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)

1.	1. List any three Conserved Family names and the accepted corresponding alternate names	
2.	. Define character as used in plant systematics	
3.	Distinguish the followinga. Taxonomy (1 mark).b. Systematics (1 mark).c. Biosystematics (1 mark).	
4.	Using a well label diagram illustrate any three placentation types	(3marks)
5. 6.	 Briefly explain how pests can be controlled in a standard herbarium. List any three monocots and give their corresponding scientific names 	
7.	7. State the main features of phylogenetic systems of classification?	
8. 9. 10.	Define the term macromolecule and cite one example a) Define the term herbarium b) State the importance of herbarium to plant systematic? . Define micro-molecules as are applicable in chemotaxonomy	(3 marks) (1 mark) (2 marks) (3 marks)

SECTION B: ESSAY QUESTIONS (40 MARKS)

11. Two students were found discussing methods used in studying biosystematics.	One was right
while the other was wrong. In your opinion what were the key points given by	the one who
was correct	(20 marks).
12. Describe the procedure for preparing herbarium specimens	(20marks).
13. Compare and contrast monocots and dicots	20marks
14. Write an essay on the importance of plant systematics in modern biology.	(20marks).