



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**

1ST YEAR 1ST SEMESTER 2016/2017 ACADEMIC YEAR

MAIN CAMPUS - REGULAR

COURSE CODE: SBT 103

COURSE TITLE: INTRODUCTORY PLANT SYSTEMATICS

EXAM VENUE: LAB 9

STREAM: (BED)

DATE: 26/04/16

EXAM SESSION: 9.00 – 11.00 AM

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**
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SECTION A: ANSWER ALL QUESTION (30 MARKS)

1. Explain what you understand by 'liquid preservation' of herbarium specimens. (3marks)
2. State three problems that are normally faced in modern systematic studies. (3marks)
3. Illustrate three types of compound leaves known to you. (3marks)
4. Using illustrations, distinguish between pistillate and staminate flower. (3marks)
5. Briefly explain why insectivorous plants may be regarded as indicator plants. (3marks)
6. Give any TWO characteristic features and examples of the Anacardiaceae (3marks)
7. State THREE functions of a herbarium (3marks)
8. State why Latin was preferred in nomenclature (3marks)
9. Define biosystematics (3marks)
10. Citing one example, define 'phyllotaxy' (3marks)

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

11. Describe the Tomato family and, state with examples, its economic significance. (20 marks)
12. Discuss major morphological structures used in plant classification. (20 marks)
13. Discuss characters and sources of taxonomic characters. (20 marks)
14. Discuss general and special purpose classifications. (20 marks)