



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY**

**SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE  
(BIOLOGICAL SCIENCES)**

**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER 2016/2017 ACADEMIC YEAR**

**MAIN CAMPUS - REGULAR**

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**COURSE CODE: SBI 3123**

**COURSE TITLE: INTRODUCTORY PLANT SYSTEMATICS**

**EXAM VENUE: LAB 1**

**STREAM: (BIO)**

**DATE: 26/04/16**

**EXAM SESSION: 9.00 – 11.00 AM**

**TIME: 2 HOURS**

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**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 QUESTIONS (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. (20marks)
12. Discuss major morphological structures used in plant classification. (20marks)
13. Discuss characters and sources of taxonomic characters. (20marks)
14. Discuss general and special purpose classifications. (20marks)