



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION
(SCIENCE)
1ST YEAR 1ST SEMESTER 2013/2014 ACADEMIC YEAR
MAIN

COURSE CODE: SBT 103/SBI 3123

COURSE TITLE: INTRODUCTION TO PLANTS SYSTEMATICS

EXAM VENUE: LAB 2

STREAM: (Biological Sciences)

DATE: 24/04/14

EXAM SESSION: 2.00 – 4.00 PM

TIME: 2.00 HOURS

Instructions:

- 1. Answer ALL Questions in Section A and ANY other 2 questions in 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 the examination room.**

SECTION A: COMPULSORY (30 MARKS)

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

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

1. Describe the Tomato family and, state with examples, its economic significance. (20 marks)
2. Discuss major morphological structures used in classification (20 marks)
3. Discuss characters and sources of taxonomic characters (20 marks)
4. Discuss general and special purpose classifications (20 marks)