



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION
(SCIENCE)
2ND YEAR 1ST SEMESTER 2013/2014 ACADEMIC YEAR
MAIN

COURSE CODE: SBI 3225

COURSE TITLE: GYMNOSPERM & ANGIOSPERM TAXONOMY

EXAM VENUE: LAB 5

STREAM: (Biological Sciences)

DATE: 14/04/14

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. Citing an example, define the word “Flora” (3 marks) .
2. List any THREE major categories in the hierarchy of plant classification and indicate their name endings

<u>Category or rank</u>	<u>Name -ending</u>	
a.	(1 mark).
b.	(1 mark).
c.	(1 mark).
3. Define character as used in plant classification (3 marks).
4. List any three Conserved Family names and the accepted corresponding alternate names. (3 marks)
5. Name the families that the following plants belong to:

<u>Plant</u>	<u>Family</u>	
a. <i>Brassica oleracea</i>	(1 mark)
b. <i>Psidium guajava</i>	(1 mark)
c. <i>Saccharum officinarum.</i>	(1 mark)
6. List any three distinguishing features that distinguishes gymnosperms from angiosperms (3 marks)
7. Give any TWO characteristic features and examples of the Anacardiaceae (3 marks)
8. State what you understand by
 - a. taxonomy
1.5marks
 - b. Identification
1.5marks
9. State any three ways by which Cycadales are of the economic importance (3 marks).
10. List THREE diagnostic features of Monocots (3 marks).

SECTION B: Answer any Two questions (40 marks)

11. Describe the Asteraceae and, state with examples, its economic significance (20marks).
12. Discuss the group gymnospermae of plants. (20 marks)
13. Outline the development of modern taxonomy from the “Ancient Classification” phase to the “Post Linnean Natural Systems”. (20 marks)
14. Discuss pre-zygotic isolation mechanisms in Angiosperms (20 marks).