



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

**SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES**

**DEPARTMENT OF BIOLOGICAL SCIENCES**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCES  
IN BIOLOGICAL SCIENCES**

**1<sup>ST</sup> YEAR 2<sup>ND</sup> SEMESTER 2016/2017 ACADEMIC YEAR**

**MAIN CAMPUS - REGULAR**

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**COURSE CODE: SBI 3123**

**COURSE TITLE: SURVEY OF PLANT KINGDOM**

**EXAM VENUE: LAB 1 2<sup>ND</sup> FL**

**STREAM: (BED. SC)**

**DATE: 19/04/17**

**EXAM SESSION: 11.30 – 1.30 PM**

**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**

**SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)**

1. Differentiate between Zoospores and Aplanospores (3 marks)
2. List the three types of mycelium in Fungi (3 marks)
3. Briefly explain how Fungi has been used as a bio-control agent (3 marks)
4. Outline any three medicinal value of Gymnosperms (3 marks)
5. Differentiate between lophotrichous and peritrichous bacteria (3 marks)
6. Name three accessory pigments found in the Division Dinoflagellata (3 marks)
7. (i) State the function of rhizoids in Moss (1mark)  
(ii) Explain why Moss may not survive in hot and dry environment (2 marks)
8. Describe the Subdivision Psilophyta (3 marks)
9. Describe the androecium in flowering plants (3 marks)
10. Explain the anatomical difference between gram positive and gram negative bacteria (3 marks)

**SECTION B: ESSAY QUESTIONS (40 MARKS)**

11. Describe fertilization in Angiosperms (20 marks)
12. Discuss the economic importance of Bacteria (20 marks)
13. Describe the life cycles in Algae (20 marks)
14. Discuss the classification of Pteridophytes (20 marks)