



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY**  
**SCHOOL OF BIOLOGICAL, PHYSICAL, MATHEMATICS AND ACTUARIAL SCIENCES**  
**UNIVERSITY SPECIAL EXAMINATIONS FOR THE DEGREE OF BACHELOR OF**  
**EDUCATION SCIENCE**  
**FIRST YEAR FIRST SEMESTER ACADEMIC YEAR 2020/2021**  
**MAIN CAMPUS - REGULAR**

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**COURSE CODE:** SBT 103  
**COURSE TITLE:** INTRODUCTION TO PLANT SYSTEMATICS  
**EXAM VENUE:** STREAM: (BED)  
**DATE:** EXAM SESSION:  
**TIME:**

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**Instructions**

- 1. Answer ALL questions in Section A (compulsory) and ANY TWO 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**
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**SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)**

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

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

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