



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY
SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR EDUCATION
SCIENCE WITH IT AND BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES
2nd YEAR 2nd SEMESTER 2018/2019 ACADEMIC YEAR
MAIN CAMPUS - REGULAR

COURSE CODE: SBT 203/SBI 3215

COURSE TITLE: ECONOMIC BOTANY

EXAM VENUE: LAB 8

DATE: 17/05/2019

EXAM SESSION: 12.00-2.00PM

TIME: 2 HOURS

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: SHORT ANSWER QUESTIONS (30 Marks)

1. Elucidate the role of secondary plant metabolites to plants (3 marks)
2. (a) Explain how you would distinguish sweet and bitter cassava varieties in the laboratory (2 marks)
(b) State the disadvantages of using indigo dye (marks)
3. Distinguish the types of gum found in the plant kingdom (3 marks)
4. Describe briefly the process of turning latex into rubber (3 marks)
5. Distinguish the types of oil obtained from *Eleais quinensis* (3 marks)
6. (a) Explain parboiling in rice milling (1marks)
(b) List the advantages of the process above (2 marks)
7.
 - (a) Explain what tannins are? (1 mark)
 - (b) Explain the principal behind the use of tannins in the leather industry (2marks)
8. State the metabolites found in *Papaver somniferum* and give their economic use (3 marks)
9. Elucidate why cereals are preferred as sources of food (3 marks)
10. List three examples of tree legumes and outline their uses in Kenya (3 marks)

SECTION B: ESSAY QUESTIONS (40 Marks)

11. Write an essay on plant fibres (20 Marks)
12. Discuss oil plants (20 Marks)
13. Write an essay on nuts (20 Marks)
14. Discuss fumitories and masticatoeies (20 Marks)