



MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2012/2013

**SECOND YEAR SECOND SEMESTER EXAMINATIONS
FOR THE DEGREE OF BACHELOR OF SCIENCE WITH
INFORMATION TECHNOLOGY
(MAIN CAMPUS)**

**SBT 205: PLANT ECOLOGY AND
ENVIRONMENTAL SCIENCE**

Date: 18th July, 2013

Time: 2.30 – 4.30 p.m.

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SECOND YEAR SECOND SEMESTER EXAMINATION FOR THE
DEGREE OF BACHELOR OF SCIENCE WITH IT.

SBT 205: PLANT ECOLOGY AND ENVIRONMENTAL SCIENCE

DATE:

TIME: 2HRS

INSTRUCTIONS: Attempt ALL questions in section A and any TWO
questions selected from section B.

SECTION A: Short Answer Questions: (30 MARKS)

1. With relevant examples, outline three functions of ecosystems. (3 marks)
2. a) Distinguish between allogenic and autogenic succession. (2 marks)
b) Define plant community. (1 mark)
3. What are the major components of an ecosystem? (3 marks).
4. a) Outline four adaptations of mangrove forests. (2 marks)
b) Differentiate between a primary forest and a secondary forest. (1 mark)
5. Briefly explain what is meant by primary productivity? (3 marks)
6. a) State four environmental consequences of denitrification. (2 marks)
b) Differentiate between ecotone and ecotype. (1 mark)
7. Outline the major characteristics of a climax community. (3 marks)
8. a) Distinguish between renewable and non renewable resources. (1 mark)
b) Briefly describe the flow of energy through an ecosystem. (2 marks)
- Q9. Giving examples, what do you understand by environmental pollution? (3 marks)

Q10. Outline three environmental implications of human population growth. (3 marks)

SECTION B: (40 MARKS)

- Q1. Discuss pesticide pollution. (20 marks).
- Q2. Describe analytical characteristics of plant communities. (20 marks)
- Q3. Discuss ecological succession in reference to hydrosere. (20 marks)
- Q4. Discuss the major threats on marine ecosystems and explain the measures that can be undertaken to protect marine biodiversity. (20 marks)