



CHUKA UNIVERSITY

COLLEGE

UNIVERSITY EXAMINATIONS

**RESIT EXAMINATION FOR THE AWARD OF CERTIFICATE IN
ECOTOURISM AND HOSPITALITY MANAGEMENT**

CERT 0003: INTRODUCTION TO ENVIRONMENTAL SCIENCE

STREAM: CERT ECOTOURISM

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 5/10/11

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

ANSWER ALL QUESTIONS IN SECTION A AND ANY 2 IN SECTION B.

SECTION A (30 MARKS)

1. List five factors that control herbivore populations in the Savanna ecosystem. [5 marks]
2. List four factors that affects decomposition rate. [4 marks]
3. Briefly explain the three main types of ecological pyramids. [6 marks]
4. (a) Define the term human ecology. [1 mark]
(b) State four major factors that influence human population growth. [4 marks]
5. Describe the carbon cycle. [10 marks]

SECTION B (40 MARKS)

6. Discuss five types of forests based on altitudinal zonation. Give appropriate examples. [20 marks]
7. Describe the zones found in lentic habitat using a well labeled diagram. [20 marks]

8. (a) Discuss the impacts of water pollution on the environment. [12 marks]
- (b) Explain measures to control water pollution. [8 marks]
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