

CHUKA



UNIVERSITY

COLLEGE

UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF
DIPLOMA IN ECOTOURISM AND HOSPITALITY MANAGEMENT**

ENSC 0100: INTRODUCTION TO ENVIRONMENTAL SCIENCE

STREAM: DIP (ECOT. & HOSP. MGT) Y1S2

TIME 2 HOURS

DAY/DATE: WEDNESDAY 8/12/2010

8.30 A.M. – 10.30 A.M

INSTRUCTIONS:

ANSWER ALL QUESTIONS IN SECTION A, AND ANY TWO QUESTIONS IN SECTION B.

SECTION A CARRIES 30 MARKS WHILE SECTION B CARRIES 40 MARKS.

CHEATING IS PROHIBITED.

SECTION A: ANSWER ALL QUESTIONS (30 MARKS)

1. Differentiate the following concepts:
 - (a) Environmentalism and Environmental science. [3 marks]
 - (b) Conservation and preservation. [3 marks]
 - (c) Adaptability and resilience. [3 marks]
2. Explain the interactions between an organism and its biotic and abiotic environment. [9 marks]
3. Explain the difference between lotic and lentic environment in reference to aquatic ecology. [4 marks]
4. Outline the role of carbon dioxide in “green house effect”. [4 marks]
5. Describe the strategies to prevent extinction of rare organisms through technology. [4 marks]

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

6. Explain in detail the characteristics of the desert biome. [20 marks]
7. Discuss the following atmospheric cycles:
- (i) Hydrological cycle [10 marks]
 - (ii) Sulphur cycle [10 marks]
8. Discuss the managerial strategies that can be applied to promote sustainable environmental use in the tourism industry. [20 marks]
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