

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

ENSC 101: PRINCIPLES OF ENVIRONMENTAL SCIENCE

STREAMS: B.SC ENSC Y1S1

TIME: 2 HOURS

DAY/DATE: FRIDAY 20/12/2024

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

- Attempt all questions in section A and any two in section B.
- Do not write anything on the question paper.

SECTION A (30 MARKS)

1. Explain the interdisciplinarity of environmental science (2 marks)
2. What is the significance of environmental science in addressing global environmental challenges? (3 marks)
3. Briefly describe the following concepts as used in environmental science
 - a) Ecosystem services (4 marks)
 - b) Carrying capacity (4 marks)
 - c) Biotic components (5 marks)
4. Ecosystems functions and balancing are guided by ecological principles. Explain three of such ecological principles (6 marks)
5. State and explain three objectives of environmental education (6 marks)

SECTION B (40 MARKS)

6. Discuss the environmental consequences of increased human population (20 marks)

 7. Based on abundance and availability, discuss the classification of natural resources found in Kenya (20 marks)

 8. Systematically discuss the historical development of environmental science (20 marks)
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