CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATION
RESIT/SUPPLEMENTARY / SPECIAL EXAMINATIONS
EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

ENSC 342: ENVIRONMENTAL DEGRADATION AND MANAGEMENT

STREAMS: ENSC (Y3S1)   **TIME: 2 HOURS**

DAY/DATE: THURSDAY 04/11/2021   **2.30 P.M - 4.30 P.M.**

INSTRUCTIONS:
- Answer all questions in SECTION A and any other two questions in SECTION B
- Do not write anything on the question paper

SECTION A: (30 MARKS)

1. Differentiate the following terms as used in environmental degradation and management

    a) Desertification and drought   (2 marks)

    b) Deliberate response and incidental response   (2 marks)

    c) Sensitivity and resilience   (2 marks)

2. Explain how customary tenure systems are often associated with environmental degradation   (5 marks)

3. State and explain the role of each stakeholder involved in Payment for Ecosystem Services (PES) schemes   (6 marks)

4. Explain the mandate of the United Nations Convention to Combat Desertification (UNCCD) in addressing the problem of desertification   (4 marks)

5. Poverty is both a cause and a consequence of environmental degradation. Explain (4 marks)

6. State and explain the Barry Commoner's laws of ecology in relation to environmental degradation and management (5 marks)

SECTION B (40 MARKS)

7. (a) With the help of a diagram, describe the stages through which industrial growth and development affects the environment (12 marks)

(b) Explain why green industry is considered an ecologically sustainable and economically viable pathway to achieving sustainable industrial development

(8 marks)

8. Using air pollution as an example, describe how the DPSIR framework can be used in the management of this environmental problem (20 marks)

9. (a) Explain the role of the government of Kenya in controlling environmental degradation

(10 marks)

(b) Discuss five mitigation measures for environmental degradation that societies can embrace in the fight against environmental degradation (10 marks)

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