

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

**THIRD YEAR EXAMINATION FOR THE AWARD OF  
BACHELOR OF SCIENCE DEGREE IN ENVIRONMENTAL SCIENCE**

**ENSC 342: ENVIRONMENTAL DEGRADATION AND MANAGEMENT**

**STREAM: ENSC (Y3S1)**

**TIME: 2 HOURS**

**DAY/DATE: THURSDAY 01/04/2021**

**11.30 A.M. – 1.30 P.M.**

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**INSTRUCTIONS:**

- *Answer ALL questions in section A and ANY TWO in section B*
- *Do not write on the question paper*

**SECTION A (30 MARKS)**

1. Explain the key dimensions of human response to environmental degradation (6 marks)
2. Write short notes on the tragedy of the commons (4 marks)
3. Explain any three preventive measures for mitigating environmental degradation (6 marks)
4. Briefly discuss the different land tenure rights that regulate the use and management of land as a resource (4 marks)
5. Highlight the objectives of the observance of the World Day to Combat Desertification (4 marks)
6. Explain the concept of Payment For Ecosystem Services (PES) in relation to environmental management (6 marks)

**SECTION B (40 MARKS)**

7. a) Using a diagram, explain the vicious cycle of poverty and environmental degradation (12 marks)
- b) Describe four sustainable land management practices that are applicable in arid and semi-arid areas (8 marks)
8. Using water pollution as an example, discuss how the DPSIR model can be applied in the management of this environmental problem (20 marks)
9. a) Discuss the stages through which the industrial sector contributes to environmental degradation (12 marks)
10. Explain the role played by the National Environmental and Management Authority (NEMA) Kenya in the management of environmental resources (8 marks)
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