

CHUKA



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SUPPLEMENTARY/RESIT

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

ENSC 342: ENVIRONMENTAL DEGRADATION AND MANAGEMENT

STREAMS: BSc. (ENSC)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 11/8/2021

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. Explain any three preventive measures for mitigating environmental degradation. (6 marks)
2. Explain the role of the government in controlling environmental degradation. (4 marks)
3. Write short notes on land tenure rights. (4 marks)
4. Highlight the specific objectives of the Kenya National Action Programme for combating desertification. (6 marks)
5. Using a diagram, explain the vicious cycle of poverty and environmental degradation. (6 marks)
6. Explain the concept of green industry (4 marks)

SECTION B (40 MARKS)

7. Discuss the consequences of desertification with respect to:
 - a. Environmental effects (10 marks)
 - b. Economic effects (10 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 concept of Payment for Ecosystem Services (PES) in relation to environmental management (10 marks)
- (b) Explain the key principles that guide the implementation of PES schemes (10 marks)
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