

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

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

**ENSC 342: ENVIRONMENTAL DEGRADATION AND MANAGEMENT**

**STREAMS: BSC (ENSC)**

**TIME: 2 HOURS**

**DAY/DATE: MONDAY 02/12/2019**

**2.30 P.M. – 4.30 P.M.**

**INSTRUCTIONS:**

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

**SECTION A (30 MARKS)**

1. Explain the following terminologies as used in environmental management [5 marks]
  - (i) Sensitivity
  - (ii) Resilience
  - (iii) Conservation agriculture
  - (iv) Environmental refugees
  - (v) Desertification
2. Outline the objectives of the World Day to Combat Desertification [4 marks]
3. Explain the relevance of the Barry Commoner's laws of ecology in environmental management [5 marks]
4. Highlight the six objectives of the Kenya National Action Programme which is a key framework for combating desertification in the country [6 marks]
5. Explain the role played by National Environment Management Authority (NEMA) Kenya, in controlling environmental degradation [6 marks]

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6. Explain the implication of customary land tenure on land degradation and management

[4

marks]

**SECTION B (40 MARKS)**

7. Poverty is both a cause and a consequence of environmental degradation. Discuss

[20

marks]

8. While development enables people to better their lives, it comes along with detrimental impacts on the environment if not controlled

(a) Discuss this statement with reference to industrial growth [10 marks]

(b) Explain how green industry acts as a pathway for achieving sustainable industrial growth [10

marks]

9. (a) Describe Payment for Ecosystem Services (PES) as a tool for mitigating environmental degradation [10

marks]

marks]

(b) Discuss the pros and cons of the PES tool in environmental management

[10

marks]

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