

UNIVERSITY EXAMINATIONS

FIRST SEMESTER 2025/2026 ACADEMIC YEAR

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

**ENSC 313: ENVIRONMENTAL DEGRADATION AND
MANAGEMENT**

STREAM: R

TIME: 2 HRS

DAY: THURSDAY [14.30 – 16.30 P.M]

DATE: 29/01/2026

THIS QUESTION PAPER CONSISTS OF TWO (2) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

Attempt all questions in section A and any 2 in section B

SECTION A (30 MARKS)

QUESTION ONE (30 MARKS)

- a) Explain the following terminologies as used in environmental degradation and management
 - i) Sustainable land management (2 Marks)
 - ii) Atmospheric pollution (2 Marks)
 - iii) Climate change (2 Marks)
 - iv) Biological degradation assessment (2 Marks)
 - v) Resilience (2 Marks)
- b) As an environmental officer working around Laikipia University and its environs, describe the key indicators to include in each DPSIR component. (10 Marks)
- c) Discuss **seven** strategies that can be applied to restore arid and semi-arid ecosystems in Kenya. (7 Marks)
- d) Explain the main types of environmental degradation. (3 Marks)

SECTION B (40 MARKS)

QUESTION TWO (20 MARKS)

Evaluate the policy and institutional frameworks for environmental management in Kenya. (20 Marks)

QUESTION THREE (20 MARKS)

Explain key approaches to reducing atmospheric degradation. (20 Marks)

QUESTION FOUR (20 MARKS)

- a) Discuss the best indicators that can be used to measure poverty-driven environmental degradation. (14 Marks)
- b) Explain essential indicators to measure the severity of land degradation. (6 Marks)

QUESTION FIVE (20 MARKS)

Describe the principle of sustainable land management and the key indicators used to monitor (SLM) in relation to land degradation. (20 Marks)