

CHUKA



UNIVERSITY

UNIVERSITY 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: MONDAY 16/12/2024

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) “There is enough in the world for everyone’s need but not enough for everyone’s greed”. Explain this statement in relation to environmental degradation and management. (4 marks)
- 2) Explain the concept of human ecological footprint. (6 marks)
- 3) Write short notes on the concept of the Tragedy of the Commons. (4 marks)
- 4) Explain the meaning of desertification and highlight the objectives of the world day to combat desertification. (5 marks)
- 5) Citing relevant examples, explain the “double environment effect” occurring in developing countries as a result of industrial growth and development. (4 marks)
- 6) Explain the Ehrlich and Holdren (1972) equation that describes the impact of human activity on the environment. (5 marks)
- 7) Legitimate tenure rights support good land stewardship. Explain. (2 marks)

SECTION B: 40 MARKS

- 8) a. Discuss the relevance of the Barry Commoners laws of ecology in environmental degradation and management. (10 marks)

- b. Describe the Environmental Kuznets Curve and its relevance in elucidating the relationship between economic growth and environmental degradation. (10 marks)
- 9) a. Discuss the benefits of green industry as a sustainable approach to industrial growth (10 marks)
- b. Describe the DPSIR tool that is used in the management of environmental problems.(10 marks)
- 10) a. Describe Payment for Ecosystem Services (PES) as a key tool for effective environmental management. (12 marks)
- b. Environmental degradation affects everyone on the planet, but at differing degrees. Explain this statement in relation to poverty and environment. (8 marks)
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