

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

ENSC 331: ENVIRONMENTAL RESOURCE ECONOMICS

STREAMS: BSC ENSC Y3S2

TIME: 2 HOURS

DAY/DATE: MONDAY 05/07/2021

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- Answer all questions in section A and any two in section B.
- Do not write anything on the question paper.

SECTION A: (30 MARKS)

1. Explain the following terms (6 marks)
 - (a) Environmental Kuznets Curve
 - (b) Free market environmentalism
 - (c) Ecological footprint
2. Briefly explain the meaning of ‘cost effective emission reductions’ (5 marks)
3. Explain the basic methods of natural resource pricing. (5 marks)
4. Explain the essence of environmental resource economics. (5 marks)
5. Briefly describe the role of diminishing returns in respect to environmental resource economics. (6 marks)
6. Explain four systems that can be used by the government to control permissible quantity of emissions. (4 marks)

SECTION B: (40 MARKS)

7. Describe some damaging externalities that may arise from production and consumption of fossil fuels. (20 marks)
8. Using suitable graphical illustration, discuss the concept of cleaner production for pollution control. (20 marks)
9. (a) Discuss 'cost effectiveness' as a criterion for choosing instruments in environmental policy. (10 marks)
- (b) Explain the relevance of environmental resource economics discipline in the contemporary society. (10 marks)
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