

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOF OF SCIENCE IN ENVIRONMENTAL SCIENCE

ENSC 101: PRINCIPLES OF ENVIRONMENTAL SCIENCE

STREAMS: BSC (ENSC)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 11/12/2019

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

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

SECTION A (30 MARKS)

1. Differentiate the following terms
 - (a) Hydrosphere and cryosphere [2 marks]
 - (b) Meteorological disasters and climatological disasters [2 marks]
 - (c) Population density and population distribution [2 marks]
2. Explain the major demographic drivers of ecosystem change [4 marks]
3. Outline four ways through which vehicular pollution in Kenya can be controlled [4 marks]
4. Sometimes renewable resources can be depleted if they are used too fast. Explain this statement with the use of three examples. [6 marks]
5. Citing relevant examples in each case, explain the different categories of ecosystem services [4 marks]

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6. Explain how temperature inversions take place in the atmosphere and give reasons for the inversions. [6 marks]

SECTION B (40 MARKS)

7. (a) Explain the importance of forest ecosystems in Kenya. [10 marks]
(b) Discuss the negative environmental effects of deforestation in Kenya. [10 marks]
8. Discuss the factors that limit the achievement of sustainable development in most African countries [20 marks]
9. (a) Discuss five values of biological diversity in Kenya. [10 marks]
(b) Explain ten ways in which Kenya's biodiversity is threatened. [10 marks]
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