

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

ENSC 224: ENVIRONMENTAL GEOLOGY

STREAMS: BSC (ENSC)

TIME: 2 HOURS

DAY/DATE: FRIDAY 07/12/2018

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 on the question paper

1. Briefly discuss 'human population growth' as an important concept of environmental geology [6 marks]
2. Describe the 'love canal episode' and show how knowledge in environmental geology could have prevented its occurrence [6 marks]
3. Briefly discuss the objectives of waste management in environmental geology [3 marks]
4. Explain the following terms and how they may be used for predicting changes in the earth system
(a) Uniformitarianism
(b) Global linkages
(c) Environmental utility [6 marks]
5. Explain various geological factors to consider while constructing a sanitary landfill for disposal of radioactive wastes [6 marks]
6. With suitable examples describe the importance of various Earth materials [3 marks]

SECTION B (40 MARKS)

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7. Discuss the physical characteristics of minerals and indicate their significance to the utility of minerals [20 marks]

 8. Using a suitable diagram, describe the rock cycle and name three examples of rocks generated at each stage of the cycle [20 marks]

 9. Explain the plate tectonic movement and its significance in environmental geology [20 marks]
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