

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FOURTH YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF ENVIRONMENTAL SCIENCES

ENSC 408: ENVIRONMENTAL GEOLOGY

STREAMS: B.Sc. ENSC

TIME: 2 HOURS

DAY/DATE: FRIDAY 8/12/2017

11.30 A.M - 1.30 P.M.

INSTRUCTIONS:

- Answer ALL Questions in Section A and any other TWO Questions in Section B
- Do not write on the question paper

SECTION A

QUESTION ONE

Giving an example of each, explain how positive and negative feedback mechanisms operate in the physical environment. [6 Marks]

QUESTION TWO

Briefly explain the meaning of the following terms and give two examples of each

- a) Metals [2 Marks]
- b) Mineral [2 Marks]
- c) Metamorphic rock [2 Marks]

QUESTION THREE

Briefly discuss the objectives of environmental geology in our contemporary societies. [6 Marks]

QUESTION FOUR

Environmental geology is an applied science, briefly explain its relevance in environmental planning. [6 Marks]

QUESTION FIVE

List six (6) non-metallic earth resources and highlight their economic importance in the contemporary world. [6 Marks]

SECTION B [40 MARKS]

QUESTION SIX

Discuss the effects of trace elements on human health.

[20 Marks]

QUESTION SEVEN

Describe any four geological hazards and their respective roles in environmental geology.

[20 Marks]

QUESTION EIGHT

Giving their significance to environmental sciences, discuss the principles upon which environmental geology is founded.

[20 Marks]

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