

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATION
RESIT/SUPPLEMENTARY / SPECIAL EXAMINATIONS
EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
ENVIRONMENTAL SCIENCE**

ENSC 224: ENVIRONMENTAL GEOLOGY

STREAMS: BSC. (ENSC) Y2S2

TIME: 2 HOURS

DAY/DATE: TUESDAY 02/11/2021

11.30 A.M - 1.30 P.M.

INSTRUCTIONS

- Answer **ALL** questions in **SECTION A** and any **TWO** questions in **SECTION B**.
- Do not write anything on the question paper

SECTION A: (30 MARKS)

Q1. Define the following terms as used in geology

- a) Deposition [2 marks]
- b) Lithification [4 marks]
- c) Diagenesis [4 marks]

Q3. Explain the use of sedimentary rocks as indicators of climate change [5 marks]

Q4. Describe the radon gas as indoor air pollutants [5 marks]

Q5. Discuss environmental factors to consider when designing a waste disposal site [5 marks]

Q6. Discuss plate tectonic theory in relation to biodiversity conservation in Madagascar [5 marks]

marks]

SECTION B: (40 MARKS)

Q7. Discuss Natural geological hazards and their hazards management [20 marks]

Q8. Using an appropriate diagram, explain the difference between extrusive and intrusive igneous rock formation and give an example for each [20 marks]

Q9. Kenya has discovered oil deposits in Turkana County. As an Environmental, Health and Safety Officer, discuss how you will advise the County government on the petrochemical exploration safety. [20 marks]

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