

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATION

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

ENSC 224: ENVIRONMENTAL GEOLOGY

STREAMS: BSC. ENSC

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 11/08/2021

8.30 A.M - 10.30 A.M.

INSTRUCTIONS

- Answer all Question 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]

SECTION B (40 marks)

Q7. Briefly 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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