

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATION

RESIT/SPECIAL EXAMINATIONS

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

ENSC 224: ENVIRONMENTAL GEOLOGY

STREAMS: ENSC Y2S1

TIME: 2 HOURS

DAY/DATE: TUESDAY 02/02/2021

2.30 P.M – 4.30 P.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

- c) Deposition [2 marks]
- d) Lithification [2 marks]
- a) Diagenesis [2 marks]

Q2. Describe the formation of Pumice and indicate its applications [3 marks]

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

Q4. Describe the radon gas as indoor air pollutants [3 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 [5 marks]

SECTION B (40 marks)

Q7. (a) Briefly discuss any five natural geological hazards [10 marks]

(b) Using examples, discuss how losses due to geological hazard can be prevented

[10

marks]

Q8. (a) Discuss various properties of minerals [10 marks]

(b) Using an appropriate diagram, explain the difference between extrusive and intrusive igneous rock formation and give an example for each [10 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]
