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SECOND YEAR 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 6 /07/ 2021 8.30 AM – 10.30 AM

INSTRUCTIONS:

- Answer <u>ALL</u> Questions in <u>SECTION A</u> and <u>ANY TWO</u> in <u>SECTION B</u>
- Do not write anything on the question paper

SECTION A: (30 MARKS)

- Q1. Define the following terms as used in geology
- a) polymorphs [2 Marks]
- b) Amphibole group [2 Marks]
- c) Diagenesis [2 Marks]
- Q2. Describe the formation of Pumice a rock and indicate one of its applications. [4 Marks]
- Q3. Explain the use of sedimentary rocks as indicators of climate change. [5 Marks]
- Q4. Describe radon gas as an indoor air pollutant. [5 Marks]
- Q5. Discuss environmental factors to consider when designing a waste disposal site.

[5 Marks]

Q6. Briefly discuss prograde and retrograde reaction processes. [5 Marks]

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SECTION B (40 MARKS)

Q7. (a) Briefly discuss any five natural geological hazard can be prevented.

[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 an each. [10 Marks]

Q9. Describe the physical form, mineralogy and genesis of kimberlite rocks. [20 Marks]

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