

The National University of Lesotho
BSc. Examination
PG 2421: Introduction to physical geology Supplementary Exam

August 2023

Duration: 3 hours

Marks: 100

Instructions:

- Answer any **four (4)** questions
 - Where applicable illustrate your answer with diagrams.
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Question 1

- a) Define Geology and give 4 reasons why we have to study it. (10)
 - b) How does geology incorporate other sciences? (5)
 - c) Differentiate between endogenic and exergonic processes of the earth giving examples (10)
- (25)**

Question 2

- a. Define solar system and how it came into being (25)
- (25)**

Question 3

- a. Define disk instability model (5)
 - b. Describe the shape of the earth and its layers (10)
 - c. Define the lithosphere and what it is made up of (10)
- (25)**

Question 4

- a. Mention and describe 3 plate boundaries giving examples for each (15)
 - b. Identify 5 major plates and where they are found (10)
- (25)**

Question 5

- a. Identify and explain 5 rocks transforming agents (15)
 - b. Define in details the karoo basin (10)
- (25)**

Question 6

- a. Define 3 main types of chemical weathering (9)
 - b. Identify and explain 4 human activities that influence weathering (12)
 - c. What are rocks made up of? (4)
- (25)**