

The National University of Lesotho  
BSc and BA Examination  
PG 2422: Introduction to Geomorphology Supplementary Exam

August 2023

Duration: 3 hours

Marks: 100

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**Instructions:**

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

- a) Discuss how understanding of how and when landforms were formed is important in disaster management. (10)
  - b) Discuss how incorporating geomorphological studies in environmental studies is important in sustainable environmental management. (15)
- (25)**

Question 2

- a) Explain why landforms and processes that form them are compared to cause and effect relationship. (5)
  - b) Describe Davis cycle of erosion, explain all stages of the cycle. (15)
  - c) Briefly describe Uniformitarianism theory. (5)
- (25)**

Question 3

- a) Explain how dissolution of rocks occur, what landforms are formed during such process and give examples of such landforms in your countries. (10)
  - b) Differentiate between erosion and sedimentation, give examples of landforms affected and formed during those processes. (12)
  - c) What is the difference between spatial and temporal scales in geomorphology? (3)
- (25)**

Question 4

Describe a river system, identifying all its components and processes and how it is altered by human activities. (25)

**(25)**

Question 5

Mention and explain any 5 factors that affect the rate of geomorphological processes, explain how they influence those processes and the rates. (25)

**(25)**

Question 6

a) Define a catchment/ watershed. (5)

b) Discuss two human activities that affect the status of a drainage basin. (20)

**(25)**