



UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA

FIRST SEMESTER EXAMINATIONS, NOV/DEC 2018

COURSE NO: GL 171

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COURSE NAME: Physical Geology

CLASS: GL I

TIME: 3hrs

Name: _____ Index Number: _____

Answer Question 1 and any Other 5 Questions

1. Define the following terms as used in physical geology:
a) Glacial drift b) Talus c) Fault d) Nonconformity e) Paleomagnetism

(10 marks)
2. A mass of granite is in contact with a layer of sandstone. Using the stratigraphic principles, explain how you might determine whether the sandstone was deposited on top of granite, or whether the magma that formed the granite was intruded after the sandstone was deposited.

(10 marks)
3. In a tabular form, compare and contrast the sediment deposited by a stream, the wind, and a glacier. Which deposit should have the most uniform grain size? Which one would exhibit the poorest sorting? Explain your choices.

(10 marks)
4. a) List three primary factors that determine the nature of a volcanic eruption.
b) What role does each play?
c) What is the relationship between volcanic activity and plate tectonics?

(10 marks)
5. a) What are the three main zones of a river system?
b) Describe how streams transport their loads
c) What features are produced by the geologic work of groundwater?

(10 marks)
6. a) What are the controls and triggers of mass wasting?
b) What criteria are used to divide and describe the various types of mass wasting?

(10 marks)
7. Briefly discuss the concept of serpentinization and its role in plate tectonics.

(10 marks)
8. a) What is rock deformation?
b) What factors influence how rock deforms?

(10 marks)

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