



UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA

FIRST SEMESTER EXAMINATIONS, NOV/ DEC. 2018

COURSE NO: ES 161

COURSE NAME: PHYSICAL & STRUCTURAL GEOLOGY

CLASS: ES 1

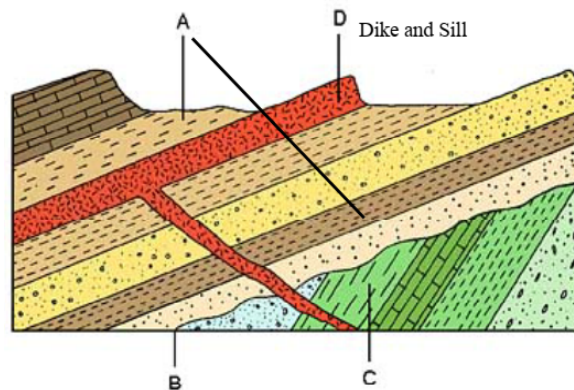
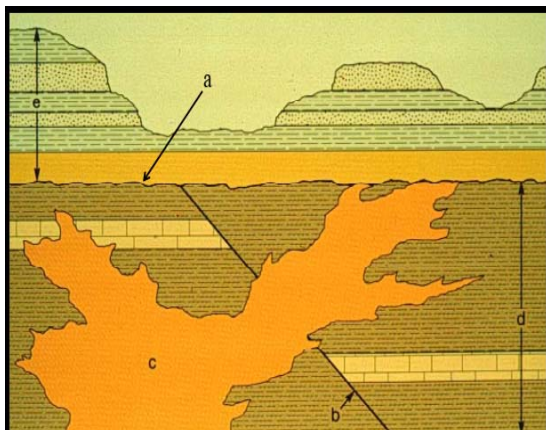
TIME: 3 HRS

Name: _____ Index Number: _____

The Questions are put into Two Sections (A and B). Answer All the Questions under Each Section.

Section A

- 1a. Why do we need to study the Earth on which we live on? **(5 marks)**
- 1b. Describe how sedimentary, metamorphic and igneous rocks are formed. Sketch the Rock Cycle to illustrate your description. **(15 marks)**
2. Define the following terms:
- | | | |
|-------------------------|-----------------|-------------|
| a) Unconformity | b) Hanging wall | c) Xenolith |
| d) Sublimation | e) Fault | f) Fold |
| g) Angular unconformity | h) Anticline | i) Mineral |
| j) Stratigraphy | | |
- (20 marks)**
- 3a. Explain what causes the movement of plates of the earth crust? **(10 marks)**
- 3b. Give 3 evidences of the internal heat of the Earth **(6 marks)**
- 3c. What elements make up the core of the earth? **(4 marks)**
- 4a. Explain 5 principles of stratigraphy **(10 marks)**
- 4b. Determine the sequence of events in the diagrams below **(10 marks)**



Section B

- i. The largest defined unit of time is the , composed of
- ii. Periods are divided into
- iii. Sedimentary rock formed in the time spans of Eon is chronostratigraphically known as
- iv. Sedimentary rock formed in the time spans of Period is chronostratigraphically known as
- v. Fault that has the hanging wall thrown down is called
- vi. Strike slip fault that moved to the right is known as
- vii. The geologic Era known to have reptiles is
- viii. The only supereon on the Geologic Time Scale is the
- ix. What elements are used in absolute age dating of rocks
- x. The present is the key to the past is

20 Marks

E. B. Fiadonu / Assoc. Prof. M. Affam