

0755/2/2022  
GEOL.A/L

**SOUTH WEST REGIONAL MOCK EXAMINATION  
GENERAL EDUCATION**

THE TEACHERS' RESOURCE UNIT (TRU)  
IN COLLABORATION WITH

THE REGIONAL INSPECTORATES OF PEDAGOGY AND  
THE SOUTH WEST GEOLOGY SUBJECT TEACHERS' ASSOCIATIONS  
(SOWEGETA)

THURSDAY 24/03/2022 (AFTERNOON)

ADVANCED LEVEL

Subject Title	Geology
Paper Number	Paper 2
Subject Code Number	0755

THREE HOURS

**INSTRUCTIONS TO CANDIDATES**

Answer four questions: All questions carry equal marks

*You are reminded of the necessity for good English and orderly presentation of your work.*

1. a) Describe briefly four modes of preservation of fossils. (8 marks)  
b) Define the following geologic terms;  
i. Zone fossils  
ii. Gonatoparian  
iii. Stratigraphy  
iv. Pelagic organisms  
v. Littoral zone (10 marks)  
c) Classify uniseriate graptolites based on the orientation of the stipes (7 marks)  
(Total: 25 marks)

2. a) Describe the following structures as used in sedimentary Geology;  
i. Mud cracks  
ii. Graded bed (6 marks)  
b) Describe the following depositional features;  
i. Beaches  
ii. Tombolo (6 marks)  
c) Describe the processes that lead to the conversion of sediments to shale. (5 marks)  
d) Briefly discuss the role of temperature in metamorphism. (5 marks)  
e) List 6 structures found in lava flow. (3 marks)  
(Total: 25 marks)

3. a) Differentiate the rocks schist and gneiss based on the following:  
i. Mineralogy  
ii. Texture  
iii. Grade of Metamorphism (10 marks)  
b) Using a diagram of continent/ocean convergent boundary, label possible areas of Metamorphism and state the types of Metamorphism. (10 marks)  
c) State the following stratigraphic principles;  
i) Principle of Original Horizontality  
ii) Principle of Cross Cutting Relationship (5 marks)  
(Total: 25 marks)

4. a) With the aid of diagrams, describe the dip-slip faults (12 marks)  
b) Explain briefly the various ways in which rocks will respond to the application of stress. (9 marks)  
c) State the major faults zones in Cameroon. (4 marks)  
(Total: 25 marks)

5. a) List four geophysical methods used in the exploration of mineral deposits. (4 marks)  
b) List four mineral deposits found in Cameroon. (4 marks)  
c) Outline the usefulness of the following geologic materials to man;  
i. Limestones  
ii. Quartz  
iii. Aluminum (4 marks)  
d) By the use of a diagram, briefly describe supergene enrichment in a copper node. (13 marks)  
(Total: 25 marks)

6. a) Define the following terms as used in petroleum geology
- i. Source rock (6 marks)
  - ii. Reservoir rock (4 marks)
- b) With the use of a diagram, describe the heterolithic unconformity (4 marks)
- c) Describe the various layers of the earth focusing on their rock types, discontinuities and physical states. (15 marks)
- (Total: 25 marks)**
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**END; GO BACK AND CHECK YOUR WORK**

