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.

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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 uniseral graptolites based on the orientation of the stipes (7 marks)
   (Total: 25 marks)

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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)

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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)

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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)

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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)

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6. a) Define the following terms as used in petroleum geology
   i. Source rock
   ii. Reservoir rock (6 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)

END; GO BACK AND CHECK YOUR WORK

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