

MRT 151-3 Earth Materials and Processes

Instructions to candidates

Duration: 03 hours (Part A: ½ hr, Part B: 01 hr, Part C: 1 ½ hr)

Number of questions: Part C: Essay 03

Answer ALL questions

Mark allocation: 120

Illustrate your answers with sketches/diagrams where necessary

Part C

1.

- a) Discuss "rock weathering" in detail.
- b) Using appropriate illustrations describe the formation of three (03) erosional features associated with stream erosion.
- c) Explain the process of "glacial abrasion"

(40 mark)

2. Write short notes on the following.

- a) Stalagmite and Stalactite
- b) Ventifacts
- c) Hanging Valleys
- d) Cirques

(40 mark)

3. Use the given geological map to answer following questions. Answers should be provided on the same sheet.

- a) Construct structural contours and geologic cross-section along the section line A-B.
- b) What is the geologic structure present in the map area?
- c) Calculate the dip angle and the dip direction of tilted strata.

