



**FACULTY OF SCIENCE**

**DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL MANAGEMENT & ENERGY STUDIES**

**MODULE      GGR0047**  
**GEOMORPHOLOGY**

**CAMPUS      APK**

**EXAM          January 2017**

**Date: 11 January 2017**

**Session: 08:00 – 11:00**

**ASSESSOR(S)**

**Dr. J. Fitchett**

**INTERNAL MODERATOR**

**Ms. M. Rabumbulu**

**EXTERNAL MODERATOR**

**Dr. J. Le Roux**

**DURATION    3 HOURS**

**MARKS    100**

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**NUMBER OF PAGES: 3 Pages**

**Answer all questions as per instruction**

**QUESTION 1: DEFINITIONS**

- a) Braided river
- b) Permafrost
- c) Mass wasting
- d) Aeolian transport
- e) Adiabatic lapse rates

**[20]****QUESTION 2: SHORT QUESTIONS**

Identify each of the features indicated in the photograph. Briefly explain their geomorphic formation. Discuss their significance in understanding past climates.



c)

**[30]****QUESTION 3: ESSAY QUESTIONS****Select ONE question.**

- a) Identify five key scientists responsible for the development in geographic thought. Outline their contribution to the field of geomorphology, any previous hypotheses which they challenged, and comment on the degree to which their theories remain accepted.

**OR**

- b) Discuss the difficulties in using cold-climate geomorphological features in southern Africa to reconstruct the climatic conditions during the Last Glacial Maximum and throughout the Holocene.

**[50]****SUB-TOTAL [50]****TOTAL: [100]**

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