

THE UNIVERSITY OF SWAZILAND

FINAL EXAMINATION

MAY 2009

M.Sc.

TITLE OF PAPER : ENVIRONMENTAL GEOMORPHOLOGY

COURSE NUMBER : ERM 624

TIME ALLOWED : THREE (3) HOURS

**INSTRUCTIONS : ANSWER ANY TWO QUESTIONS
ILLUSTRATE YOUR ANSWERS WITH
APPROPRIATE DIAGRAMS AND EXAMPLES WHERE
NECESSARY.**

MARKS ALLOCATED : ALL QUESTIONS CARRY 50 MARKS EACH

**THIS PAPER SHOULD NOT BE OPENED UNTIL PERMISSION HAS BEEN
GRANTED BY THE INVIGILATOR**

ANSWER ANY TWO QUESTIONS

QUESTION 1:

Use a flow diagram to discuss the most important geomorphological processes and products that result in the system of transfers, storages and outputs processes on a soil-covered slope erosion system.

(50 marks)

QUESTION 2:

'The land degradation problem is less of physical and agronomic understanding including conservation techniques and more of failure of programmes and policies in developing countries'. Discuss the validity of this statement with special reference to the Rural Development Area Programme (RDAP) of the Kingdom of Swaziland.

(50 marks)

QUESTION 3:

The geomorphologist must be able to translate scientific information for the client, and also be sensitive to responses and views of co-researchers belonging to appropriate fields. Discuss the validity of this statement.

(50 marks)

QUESTION 4:

'Rocks and soils have properties which are the result of their origin and alteration by the processes of weathering, erosion and deposition' (Selby 2000 Reprint, page 2). Discuss the validity of this statement.

(50 marks)