



FACULTY	FACULTY OF AGRICULTURE, ENGINEERING AND NATURAL SCIENCES		
DEPARTMENT	ENVIRONMENTAL SCIENCE		
SUBJECT	GEOMORPHOLOGY		
SUBJECT CODE	GHE 3601		
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DURATION	2 Hours	MARKS	70

WINTER EXAMINATION

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External Moderator: Prof. M.D. Simatele, University of Witwatersrand

INSTRUCTIONS

1. Present your work as neatly as possible.
2. This paper consists of 2 pages; **including** this cover page.
3. **Answer all the questions.**
4. Use your Examination Answer Book for all the notes you are taking during the examination.

1. Match the column A with the correct word in column B. Indicate only the answer.
Example: 1. Colluvium. Each point is allocated 2 marks.

Column A	Column B
1. Accumulations of regolith at the foot of a slope are called _____.	A. Colluvium B. Debris flows C. Earthflow D. Lakes E. Piling of waste soil and rock in unstable accumulation F. Scarification G. Slope H. Soil creep I. Solifluction
2. The term "_____" designates a strip or patch of the land surface that is inclined from the horizontal.	
3. The extremely slow downhill movement of soil and regolith is called _____.	
4. When mudflows pick up rocks and boulders, they are called _____.	
5. The general term to describe land disturbances such as excavations and strip mining is _____.	
6. Mass wasting in which water-saturated soil and regolith slowly flows downhill is referred to as an _____.	
7. _____ could result in a human-induced earthflow.	
8. A type of mass wasting that occurs when soils become thoroughly saturated with water and slowly flow downslope by gravity is referred to as _____.	
9. Landslides can be responsible for the formation of _____.	

2. Briefly describe the following mechanical weathering:
- i. Exfoliation 4
 - ii. Pressure release (unloading) 4
 - iii. Salt crystallization 4
3. Stream erosion
- i. What is a graded stream? 2
 - ii. Explain briefly the stream gradation process. 8
4. Explain in details how the following terms are connected: the breakers, swash, backwash, littoral drift, beach drift and longshore drift. 10
5. Describe five major types of dunes. 10
6. Explain how the ice sheets (continental glacier) forms. 10