

FACULTY	FACULTY OF AGRICULTURE, ENGINEERING AND NATURAL SCIENCES			
DEPARTMENT	ENVIRONMENTA	L SCIENCE		
SUBJECT	GEOMORPHOLOGY			
SUBJECT CODE	GHE 3601			
DATE	June 2022			
DURATION	2 Hours	MARKS	70	

SUPPLEMENTARY/ SPECIAL EXAMINATION

Examiner:

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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. Angle of repose. Each point is allocated 2 marks.

Column A			nn B
	extremely slow downhill movement of nd regolith is called .		
	n mudflows pick up rocks and boulders, are called	A.	Colluvium
	slides can be responsible for the ation of	В.	Debris flows
	wasting in which water-saturated soil	C.	Earthflow
	regolith slowly flows downhill is ed to as an	D.	Induce
	general term to describe land	E.	Lake
distur minin	bances such as excavations and strip g is	F.	Pores
6.	is the source for	G.	Regolith
sedim soil.	ent, which may be transformed into	Н.	Scarification
!	in activities can mass	I.	Soil creep
	ng in forms ranging from mudflow and		
	low to landslide.		
	mulations of regolith at the foot of a		
	are called		
9. The si	mall spaces between mineral grains are	- 	

2.	Briefly describe the following chemical weathering:				
	i. Oxidation	4			
	ii. Dissolution	4			
	iii. Solution	4			
3.	plain how the erosion and deposition in the river end up forming the landforms, incl				
	floodplain, natural levees, bluff, and backwash.	10			
4.	Explain how Wave erosion leads to formation of sea cliffs, a notch, sea caves, arches				
	stacks, a shore platform.	10			
5.	Dunes types depend on the presence of three factors.				
	i. Names the three factors.	. 6			
	ii. Why does the leeward side of a sand dune (the slip o	f face) have a steeper slope			
	than the windward side?	4			
6.	Explain how Alpine (mountain) glacier leads to formation of c	irque glacier, valley glacier			
	piedmont glacier, tidewater glacier and Ice berg.	10			