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St. Benedict's College Geography Department. CLASS TEST March 2014.

Q1. Basic concepts. Match the column. [LOT]

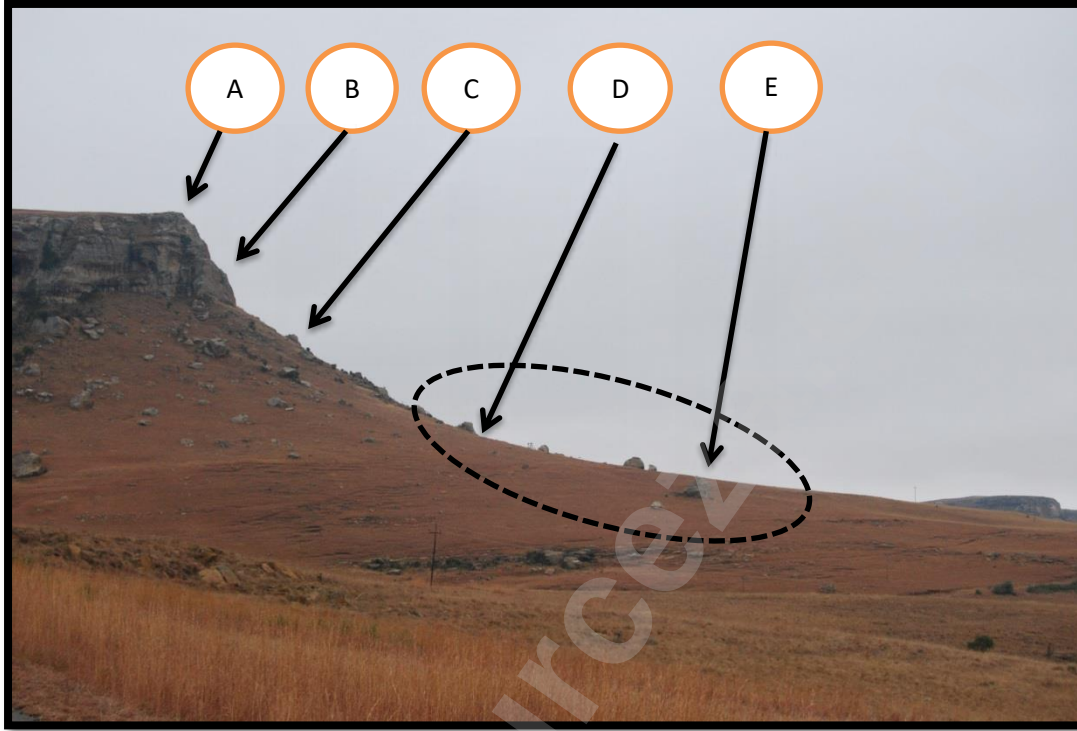
Write down ONLY the number from column A and the letter of your **choice** from column B. (12)

Column A:	Column B:
1. Regolith	A. a relief feature that appears as a pile of rocks on the landscape
2. Free face	B. the product of the processes of weathering
3. Sill	C. a form of mass wasting that occurs on the free face
4. Dyke	D. a slope element steeper than 65 degrees
5. Strata	E. when gravity exceeds the integrity of a slope
6. Mesa	F. an igneous intrusive feature than result in the formation of a mesa
7. Soil creep	G. an igneous intrusive feature that can result in the formation of a homoclinal ridge
8. Rock fall	H. a relief feature on that is wider than it is high
9. Pediment	I. a form of mass wasting that occurs on the crest of a slope
10. Tor	J. the concave slope element at the base of the slope profile
11. slope failure	K. the angle at which debris and regolith accumulate on the scree slope
12. angle of repose	L. layers within a depositional sequence

Q2. Slope elements and associated processes.

Refer to Figure 1 and answer the questions that follow.

Figure 1. The basic slope profile.



2.1 Copy the table below onto your answer script in which you must:-

	Name / label	Process / mass wasting
A		
B		
C		
D	-----	-----
E		-----

- Provide **labels** for slope elements A to E, excluding D respectively. (4)
- For each of the slope elements A, B, C in the table **suggest** ONE form of mass wasting that takes place (6)

2.2 Using evidence from the photograph **explain** why the area around D and E in the picture, are not suitable for safe human habitation. (4)

Figure 2. Evolution of a Tor.



2.3 Figure 2 above shows a relief feature called a Tor.

Redraw the diagram below using it to help you to **explain** the formation of a Tor.

(10)

Wet climatic phase	Dry climatic phase

G11 class test. Week 1, March 2014. Assessment grid.

Question	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Value
1		choose						12
2.1 a)		label						4
2.1 b)				suggest				6
2.2					explain			4
2.3					explain			10

LOT's	22/36 = 61%
HOT's	14/36 = 39%

G11 class test 6 March 2014 Marking Guidelines:

Q 1. Match the columns [lower order]

12x1=12

1. B
2. D
3. F
4. G
5. L
6. H
7. I
8. C
9. J
10. A
11. E
12. K

Q2. Slope elements

2.1

a) 4 {LOT}

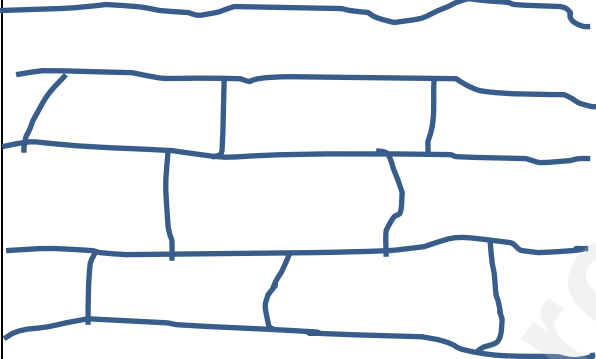
b) 6 {MOT}

	Name / label	Process / mass wasting
A	crest	Soil creep
B	Free-face	Rock fall / rock slide
C	Talus / scree / debris slope	Rill / gulley erosion / avalanche / land slide
D	-----	-----
E	Pediment	-----

2.2 presence of rocks from rock fall evident, therefore dangerous for human habitation 4 {HOT}

2.3 Tor formation

Max 10 {HOT}

Wet climatic phase Infiltration of water into bedding planes and orthogonal joints [cracks] 2 Sub-surface basal weathering 2 Core stones surrounded by regolith 2	Dry climatic phase Surface lowered by erosion 2 Regolith removed by wind / water 2 Core stones left balancing at new surface level 2
	

Test total 36 marks: