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# SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2014

(UG-CCSS)

Core Course - Geology

	GL 3B 03 – DYNAMIC GEOLOGY AND GEOINFORMATICS							
	(2013 Admissions)							
ime :	: Three Ho	ours			Maximum: 30 Weightage			
			Draw neat ske	tches where	ever necessary.			
I.	Objective Type Questions. Answer all twelve questions:							
	Choose the correct answer:							
	1. Which of the following is not a drainage pattern?							
		(a)	Parallel.	(b)	Trellis.			
		(c)	Orbital.	(d)	Radial.			
	2. The capacity of a rock to transmit fluids is called:							
		(a)	Porosity.	(b)	Transmissibility.			
		(c)	Permissivity.	(d)	Permeability.			
	3. The shallow-water zonal division of relief feature of ocean adjoining the land:							
		(a)	Continental plain.	(b)	Continental slope.			
		(c)	Continental rise.	(d)	Continental shelf.			
	4. An electronic device for capturing digital data from paper maps:							
		(a)	Digitizer.	(b)	Browser.			
		(c)	Quad tree.	(d)	Cadastre.			
	Fill in the blanks:							
	5. Isolated pillar like rock masses seen in desert regions are called							
	6.	6 is a form of limestone deposited by mineral springs, especially hot springs.						
	7.	7 are long, sinuous or winding ridges of stratified sand and gravel, occurring in						
	glaciated regions, extending in the direction of glacial movement.							
	8.	The data	a which are non-digita	l in spatial	data representation in GIS are data.			

#### Name the following:

- 9. The process of transportation of sediments by creeping.
- 10. The process of removal of loose soil or rock particles, along the course of blowing
- 11. An isolated underwater flat-topped volcanic mountain or seamount.
- 12. A group of eight bits of digital data.

 $(12 \times \frac{1}{4} = 3 \text{ wei})$ 

## II. Short Answer Type Questions. Answer all nine questions:

- 13. Consequent and subsequent streams.
- 14. Rejuvenation of stream.
- 15. Artesian aquifer.
- 16. Karst topography.
- 17. Playas.
- 18. Crevasses.
- 19. Tides and currents.
- 20. Attribute data.
- 21. Georeferencing.

 $(9 \times 1 = 9 \text{ weight$ 

### III. Short Essay Type Questions. Answer any five questions:

- 22. Geological work of stream.
- 23. Subsurface distribution of water.
- 24. Types of dunes.
- 25. Glacial ages and their significance.
- 26. Types of shorelines.
- 27. Purpose and relevance of GIS.
- 28. Overlay analysis.

 $(5 \times 2 = 10 \text{ weight$ 

## IV. Essay Type Questions. Answer any two questions:

- 29. Describe the important depositional landform features produced by river action.
- 30. Give an account of the types and origin of coral reefs.
- 31. Discuss the various components of GIS.