B.E. Civil Engineering Sem-III (Old Pattern) CL301 - Engineering Geology

P. Pages: 1 Time: Three Hours				GUG/S/19/1469 Max. Marks : 80	
	Note	s: 1. 2. 3. 4.	All questions carry equal marks. Assume suitable data wherever necessary. Diagrams and chemical equation should be given wherever necessary. Illustrate your answers wherever necessary with the help of neat sketches.		
1.			earthquake? Describe the origin of an earthquake. Give the examples of major ake in India.	16	
			OR		
2.		What is identific	mineral? Describe various physical properties that help in their megascopic eation.	16	
3.			re faults? Describe the classification of fault with neat sketches. Add a note on tion of fault in the field. OR	16	
4.	a)		tone bed in a bridge abutment is dipping at 1 in 5 along N 45° west. Find the ns in which its apparent dip is 1 in 8. Give procedure scale 1 unit = 1 c. m.	8	
	b)	its outcr	tone formation is dipping at 30° east into a sloping ground 10° west. The width of rop is 160m. Find the true and vertical thickness of the sandstone formation. Write re scale 1 cm= 40m.	8	
5.			rock cycle? Discuss the formation of igneous rock. Give the tabular classification ous rocks.	16	
		· ·	OR		
6.		What is with exa	sedimentary rock? Describe the classification and structures of sedimentary rocks amples.	16	
7.		What is in detail	prospecting? Explain the electrical resistivity method of geophysical prospecting	16	
			OR		
8.		Discuss successi	the geological conditions which leads to location, design and construction of ful dam.	16	
9.			e hydrological cycle with different components. Describe the occurrence of water below the earth surface.	16	
			OR		
10.		a) Co b) Wa c) Pos	nort notes on:- onfined and Unconfined aquifer. ater table map and their uses. rosity and permeability of rocks. rched water table.	16	
