B.E. Civil Engineering (CBCS Pattern) Third Semester 3BECE002 - Engineering Geology

P. Pages: 1 Time: Three Hours			GUG/W/18/11477 Max. Marks : 80	
	Note	 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 		
1.		What are earthquakes? Discuss the origin of earthquake and characteristic waves.	es of the seismic 16	
		OR		
2.		What is mineral? Describe the various physical properties that help in their identification.		
3.		What is Fault? Discuss the classification of fault. Add a note on significative or signification of fault.	nce of fault in 16	
		civil engineering projects. OR		
4.	a)	A Sandstone bed in Tunnel site is found to be dipping of 1 in 6 along S 6 along S15°E. Find the amount and direction of its true dip. Give procedur 1 cm.		
	b)	In a level ground a limestone formation is dipping at 30° East with its out Find its true thickness and vertical thickness. Scale 1 cm = 40 m. Give pr	*	
5.		What are igneous rocks? Discuss the tabular classification of igneous rock	ks with examples. 16	
		OR		
6.		What are sedimentary rocks? Describe the classification of sedimentary rocks with suitable examples. 16		
7.		What is prospecting and exploration? Explain the seismic method of geopprospecting in detail.	physical 16	
		OR		
8.		Discuss in brief the account of geological knowledge as applied in the cotunnels.	nstruction of 16	
9.		What is ground water? Discuss various zones of ground water below the	surface. 16	
		OR		
10.		Differentiate between following. a) Aquifer and Aquiclude. b) Unconfined and confined and confined and confined and confined and Non Artesian well.	•	