B.E.(with Credits)-Regular-Semester 2012-Civil Engineering Sem III **CL301 - Engineering Geology**

P. Pages: 1 Time: Three Hours			GUG/W/16/3673 Max. Marks : 80	
	Note	es: 1. All questions carry equal marks. 2. Assume suitable data wherever necessary. 3. Illustrate your answers wherever necessary with the help of neat	sketches.	_
1.		What is Earthquake? Describe various causes of an earthquake. Add a zones of India.	a note on seismic	16
2.	a)	OR Describe internal structure of the earth with a neat sketch.		6
	b)	What is a mineral? Describe various physical properties of mineral.		10
3.		What is fold? Describe different types of fold with neat sketches and importance in civil engineering projects. OR	add a note on its	16
4.	a)	A Limestone formation is found to be dipping in a hill side at 1:2 along amount of its apparent dip along N30°W. Give procedure. State strike sca		8
	b)	A shale bed is dipping at 45°West in a slope of 15° in same direction with its outcrop 200m wide. Find the true and vertical thickness of shale bed. Write procedure. Scale 1cm = 40m.		
5.		That is Rock cycle? Discuss the formation of Igneous rocks and add a note on tabular assification of igneous rocks. OR		16
6.		What are metamorphic rocks? Describe the various agents of metamorphism and various types of metamorphism.		16
7.		Describe various engineering properties of rocks which make them as goo for civil engineering constructions.	od building stones	16
8.		OR Discuss different geological conditions which influence the durability and stability of a dam sites.		16
9.		Describe hydrological cycle with different components. Add a note on ground water.	various zones of	16
10.		Differentiate between the following. a) Aquifer and Aquiclude. b) Unconfined and confined Aquifer. c) Artesian well and flowing well. d) Contact spring and fault spring.		16
