Time: 3 hours

Maximum Marks: 70

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

00595 December, 2014

BICE-003: ENGINEERING GEOLOGY

Note: Attempt any five questions. All questions carry equal marks. Explain the fundamental regularities on 1. (a) the origin of the Earth. 7 Explain the Tidal Hypothesis on the origin (b) of the planetary system with a sketch. 7 Explain the difference between the following: $2 \times 7 = 14$ 2. Axis of symmetry and crystallographic axis (a) with sketches. Holohedral forms and hemihedral forms (b) with sketches. 3. Differentiate between an igneous rock. a sedimentary rock and a metamorphic rock on the basis of texture, with two examples of each type. 14

4.	Define the following terms : $7\times2=$		7×2=14
	(a)	Gouge	
	(b)	Horst	
	(c)	Dip of the fault	
	(d)	Fault Plane	
	(e)	Rake	
	(f)	Nappes	
	(g)	Hinge faults	
5.	(a)	Write a comparative note on suitabilit different rocks for dam construction.	-
	(b)		7
	(D)	Write a general note on geological probl after dam construction.	ems 7
6.	Writ	te notes on any <i>two</i> of the following:	2×7=14
	(a)	Internal structure of the Earth.	
	(b)	Chemical structures of sedimentary rock	KS.
	(c)	Laboratory testing of rocks.	
7.	Expl 100 -	lain any two of the following – 125 words each :	in 2×7=14
	(a)	Metamorphic Zones	
	(b)	An Axis of Symmetry	
	(c)	Volcanic Rocks	