I B. Tech I Semester Regular Examinations, July/August-2021 ENGINEERING GEOLOGY

(Only for CE)

Time: 3 hours Max. Mark			70
Answer any five Questions one Question from Each Unit All Questions Carry Equal Marks			
1	a)	Explain the terms weathering, erosion and dendudation.	(7M
	b)	What is weathering of rocks? Analyze critically the process of weathering in granite.	(7M
2	a)	Or Describe in detail the importance of physical Geology, Petrology and Structural geology in Civil engineering.	(7M
	b)	Give two case histories of failure of dams.	(7M
3	a)	Define mineral and describe the various physical properties	(7M
	b)	which are useful in identification of minerals Or	(7M
4	a)	Distinguish between (i) Granite and Gabbro (ii) Lime stone and marble	(7M
	b)	Distinguish between (i) Laterite and conglomerate (ii) Shale and Schist.	(7M)
5	a)	Classify folds into different types on the basis of the axial plane orientation	(7M)
	b)	Write short notes on the following:	(7M)
		(i) High angle fault and low angle fault (ii) Dome and basin folds	
		Or	
6		Explain the various effects of folding and their civil Engineering importance with reference to ground water, roads and railway tracks along hill slopes.	(14M)
7	a)	What is meant by earthquake? What are the effects of earthquakes?	(7M)
	b)	What are types and applications of seismic refraction methods Or	(7M)
8	a)	Explain the relation between Geology and Geophysics.	(7M)
	b)	What is the importance of Geophysical Investigations?	(7M)
9	a)	State the role of geological structures in ground water at the tunnel site.	(7M)
	b)	Explain the importance of ground water conditions in tunneling.	(7M)
10	a)	What are the parts of a dam, types of dams and different purposes of dam Construction?	(7M)
	b)	Describe the salient features of i) Gravity dam ii) Arch dam.	(7M)