III B. Tech I Semester Supplementary Examinations, October/November - 2018 ENGINEERING GEOLOGY

(Civil Engineering)

1	Time: 3	hours M	Iax. Mark	ks: 70
•		Note: 1. Question Paper consists of two parts (Part-A and Part-I 2. Answering the question in Part-A is compulsory 3. Answer any THREE Questions from Part-B	3)	
		PART –A	~~	
1	a)	Define frost action? What is the role of freezing of water in wear process?	athering	[3M]
	b)	What is specific gravity? How can it determined for minerals?		[4M]
	c)	Discuss chevron and drag fold?		[3M]
	d)	Describe isoseismal lines and their relation to epicenter.		[4M]
	e)	Define deformability modulus and shear strength		[4M]
	f)	What are the factors affecting the water-tightness of a dam reservoir. PART -B		[4M]
2	a)	Define hydration? Discuss geological work of rivers.		[6M]
	b)	Write short note on i) river meandering ii) escarpments		[4M]
	c)	What is the importance of engineering geology related to civil engineering site?	neers in	[6M]
3	a)	Write short note on i) Granulose ii) Maculose iii) Schistose		[6M]
	b)	What are igneous rocks? How they are formed?		[4M]
	c)	Describe the physical properties of i) Quartz ii) Hornblende iii) Talc		[6M]
4	a)	What are unconformities? Discuss types of unconformities, What engi problems are created by the presence of unconformities.	neering	[8M]
	b)	What is meant by folding of rock? How is it produced and classify t fold?	ypes of	[8M]
5	a)	Discuss and describe the causes of earthquake? What precautions are t building constructions in seismic zones?	aken in	[8M]
	b)	Discuss in details about resistivity survey method and applications of el resistivity method for ground water exploration.	ectrical	[8M]
6	a)	Discuss the importance of geophysical methods, and give its significance	e	[8M]
	b)	Write various electrical methods of geophysical prospecting? Explain self potential method in geophysical prospecting.		[8M]
7	a) b)	Write short note on i) purpose of tunnel ii) over break in tunnels. What are the geological conditions necessary for the stability of a dam of a reservoir? *****	and life	[8M] [8M]
