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**SET** - 1

## III B. Tech I Semester Supplementary Examinations, May - 2018 **ENGINEERING GEOLOGY**

		(Civil Engineering)	
	Time	e: 3 hours Max. Mar	ks: 70
		Note: 1. Question Paper consists of two parts ( <b>Part-A</b> and <b>Part-B</b> ) 2. Answering the question in <b>Part-A</b> is compulsory 3. Answer any <b>THREE</b> Questions from <b>Part-B</b>	
		<u>PART –A</u>	
1	a)	Define weathering? What is the role of oxidation in weathering of rocks?	[4M]
	b)	What is meant by cleavage? What are their different types?	[3M]
	c)	What are the problems of faults in civil engineering works?	[3M]
	d)	Define confined and unconfined aquifers.	[4M]
	e)	Write applications of magnetic method	[4M]
	f)	What is the influence of geology for life of reservoirs?	[4M]
2	- \	PART -B	[ <b>£] (</b> []
2	a) b)	Describe the process of rock weathering? Explain effects and importance of weathering of rocks with reference to civil engineering.	[5M] [5M]
	c)	Discuss the geological work of river? Give the depositional landforms made by rivers.	[6M]
3	<ul><li>a)</li><li>b)</li><li>c)</li></ul>	What is texture of a rock? Discuss the various types of textures in sedimentary rocks. What is meant by rock cycle and how does it represents the sequence of formation. Describe the petro graphic characters of i) Conglomerate ii) Basalt iii) Limestone	[6M] [4M] [6M]
4	a)	Classify and describe the different types of faults in rocks and explain how they are recognized in the field?	[8M]
	b)	Classify and describe different types of joints in rock with neat sketches.	[8M]
5	a) b)	What are landslides? What are their causes? How landslides can be prevented? Write short note on i) cone of depression ii) geological controls of ground water movement.	[8M] [8M]
6	a)	Describe the seismic wave refraction method for two layer case with horizontal interface.	[8M]
	b)	What are the advantages and uses of geophysical prospecting and explain gravity method of geophysical prospecting.	[8M]
7	a) b)	What is tunnel? Explain its types, what are their advantages.  Discuss geological considerations for a successful reservoir site.	[8M] [8M]

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