Code No: RT31014





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

(Civil Engineering)

		(Civil Engineering)	
	Time	e: 3 hours Max. Mar	ks: 70
		 Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answering the question in Part-A is compulsory 3. Answer any THREE Questions from Part-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]
		PART -B	
2	a)	Describe the process of rock weathering?	[5M]
	b)	Explain effects and importance of weathering of rocks with reference to civil engineering.	[5M]
	c)	Discuss the geological work of river? Give the depositional landforms made by rivers.	[6M]
3	a)	What is texture of a rock? Discuss the various types of textures in sedimentary rocks.	[6M]
	b)	What is meant by rock cycle and how does it represents the sequence of formation.	[4M]
	c)	Describe the petro graphic characters of i) Conglomerate ii) Basalt iii) Limestone	[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)	What are landslides? What are their causes? How landslides can be prevented?	[8M]
	b)	Write short note on i) cone of depression ii) geological controls of ground water movement.	[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)	What is tunnel? Explain its types, what are their advantages.	[8M]
	b)	Discuss geological considerations for a successful reservoir site.	[8M]

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