Code No: R1631012





III B. Tech I Semester Supplementary Examinations, May - 2019 ENGINEERING GEOLOGY

Time: 3 hours

(Civil Engineering)

Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answer ALL the question in Part-A

3. Answer any FOUR Questions from Part-B

PART –A

1.	a)	Define rock weathering.	[2M]
	b)	What is the property of mineral?	[2M]
	c)	Define strike. Draw neat sketch.	[2M]
	d)	What are the causes of the earthquake?	[3M]
	e)	What is the importance of geophysics in engineering?	[3M]
	f)	What are the benefits of dam construction?	[2M]
PART -B			
2.	a)	Define rock weathering. Explain geological work of mechanical weathering.	[7M]
	b)	Explain the geological action of streams. Discuss the formation of ox-bow lake.	[7M]
	,		
3.	a)	Write megascopic study of following rocks:	[7M]
		i) Sandstone ii) Pegmatite iii) Gneiss	
	b)	What is meant by rock cycle? Discuss the different types of texture of igneous	[7M]
		rocks.	
4.	a)	Classify the various types of faults and explain it diagrammatically	[7M]
	h)	What are unconformities? How are these recognized?	[7M]
	0)		[,]
5.	a)	Define focus and epicenter? What are the tectonic earthquakes, and how are they	[7M]
		caused?	
	b)	What are landslides? Classify landslides and their causes. How landslides can be	[7M]
		prevented?	
6.	2)	What is the importance of coordinated methods classify and emploin their	[7]\ []
	a)	applications	[/]VI]
	h)	State the principle of seismic method and explain it related to civil engineering	[7M]
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7.	a)	Describe the geological considerations relating to the construction of gravity and	[7M]
	,	arch type of concrete dam.	
	b)	Write about factors affecting the water-tightness of a dam reservoir.	[7M]
