Code No: R1631012 **R16** SET - 1

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

ENGINEERING GEOLOGY

(Civil Engineering)

Time: 3 hours 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**

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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: i) Sandstone ii) Pegmatite iii) Gneiss	[7M]
	b)	What is meant by rock cycle? Discuss the different types of texture of igneous rocks.	[7M]
4.	a)	Classify the various types of faults and explain it diagrammatically.	[7M]
	b)	What are unconformities? How are these recognized?	[7M]
5.	a)	Define focus and epicenter? What are the tectonic earthquakes, and how are they caused?	[7M]
	b)	What are landslides? Classify landslides and their causes. How landslides can be prevented?	[7M]
6.	a)	What is the importance of geophysical methods, classify and explain their applications.	[7M]
	b)	State the principle of seismic method and explain it related to civil engineering.	[7M]
7.	a)	Describe the geological considerations relating to the construction of gravity and arch type of concrete dam.	[7M]
	b)	Write about factors affecting the water-tightness of a dam reservoir.	[7M]

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