III B. Tech I Semester Supplementary Examinations, February-2022 ENGINEERING GEOLOGY

(Civil Engineering)

Time: 3 hours Max. Marks: 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> (22 M	Iarks)
1.	a)	Advances in geology in allied fields have lead to specialized	[3M]
	b)	sciences. What are those? Write the mode of formation of minerals.	[4M]
	c)	Define the terms Strike & Dip.	[4M]
	d)	Define the terms Porosity and Permeability.	[4M]
	e)	Write the physical property and principle of Gravity methods.	[4M]
	f)	What is meant by Overbreak?	[3M]
		<u>PART -B</u> (48 M	Iarks)
2.	a)	What is the importance of geology in civil engineering? Explain.	[8M]
	b)	What are the Indian Rivers? Explain the geological work of	[8M]
3.	a)	rivers. Write the physical property, chemical composition and uses of QUARTZ group of minerals.	[8M]
	b)	What are the structures and textures of metamorphic rocks with sketches?	[8M]
4.	a)	What are the parts of FAULTS? Give their mechanism.	[8M]
	b)	What are the types of FAULTS? Explain each with respective sketch.	[8M]
5.	a)	Explain the terminology, classification and causes of Earthquakes.	[8M]
	b)	What are the preventive measures for construction of buildings in Earthquake prone areas?	[8M]
6.	a)	What are the branches of Geophysics, give their importance.	[8M]
	b)	Explain the Electrical Resistivity method with sketch.	[8M]
7.		What is the purpose of Dams?	[8M]
	b)	Explain the Geological considerations for successful construction of Dams with sketch.	[8M]

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