Max. Marks: 70



Time: 3 Hours.

## MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section2(f) & 12(B)of the UGC act, 1956

## II B.Tech I Sem Supplementary Examination, February-2022 Engineering Geology

(CIVIL)

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8		What are the geological factors contributing to the success of a reservoir	14M	C01	BL2
	b)	Explain the electrical resistivity method employed in geophysical exploration along with the principle involved.	7M	CO2	BL2
7	a)	Explain in detail the Seismic zones of India and the areas coming under each zone.	7M	CO2	BL2
6		Explain what are unconformities, how they form and describe types of unconformities with neat sketches	14M	CO2	BL2
	b)	What are the different types of a faults? Explain with neat sketches	7M	CO1	BL2
5	a)	Differentiate groundwater and springs and their importance in serving the humans.	7M	CO1	BL2
		a) Hematite b) galena c) graphite d) bauxite c) pyrite			
4		Explain in detail the physical properties to identify the following samples	14M	CO2	BL1
	b)	Define texture and structure and discuss the Metamorphic rock structures and textures	7M	CO2	BL
3	a)	Explain the following with neat sketches. a) dyke b) sill	7M	CO1	BL2
2		Discuss a case history on failure of a civil engineering construction due to geological draw back.	14M	CO2	BL1
	b)	What is weathering? Mention and explain different types of weathering and discuss how it affects the strength of the rock	7M	CO1	BL2
1	a)	Discuss the importance of weathering with references dames. reservoirs and tunnels.	7M	C01	BL2
	Note: 1. Answer any FIVE questions.  2. Each question carries 14 marks and may have a, b as sub questions.				