

## 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

Max. Marks: 70

## II B.Tech II Sem Regular End Examination, July-2022 Engineering Geology

(Civil Engineering)

**Time: 3 Hours.**Note: 1. Question paper consists: Part-A and Part-B.

2. In Part - A, answer all questions which carries 20 marks.

3. In Part – B, answer any one question from each unit.

Each question carries 10 marks and may have a, b as sub questions.

## PART- A

		(10*2 Mar	rks = 20	) Marks	5)			
1.	a)	What is weathering?	2M	CO1	BL			
	b)	Write about importance of Geology in civil engineering point of view?	2M	CO1	BL			
	c)	Define Mineral? Write the Moh's Hardness table?	2M	CO2	BL			
	d)	what are the physical properties of the minerals identification?	2M	CO2	BL			
	e)	Define Dykes and sills with neat sketches?	2M	CO3	BL			
	f)	Draw The rock cycle?	2M	CO3	BL			
	g)	What are the types of Aquifers?	2M	CO4	BL			
	h)	What are the part of folds?	2M	CO4	BL			
	i)	Define dam? What are the parts of Dams?	2M	CO5	BL			
	j)	Define tunneling?	2M	CO5	BL			
		PART- B						
(10*5 Marks = 50 Marks)								
2	a)	Explain about Main and allied Branches of Geology?	5M	CO1	BL			
	b)	Write about "Granite weathering?	5M	CO1	BL			
OR								
3		Define weathering? Explain about types of weathering with examples?	10M	CO1	BL			
4	a)	Write physical properties of the given minerals? i. Amethyst ii. Quartz	5M	CO2	BL			
4	a) b)		5M 5M	CO2	BL BL			
4		i. Amethyst ii. Quartz Give a brief notes on						

	6	a)	Give a classification of the Folds with neat sketches? Write about mechanism of the folds?	5M	C03	BL			
		b)	Define Joint? Explain the different types of the joints neat sketches? What are the Advantages and disadvantages of joint in civil Engineering Constructions?	5M	CO3	BL			
			OR						
	7		What is unconformity? Draw the types of unconformities and how it is useful for civil engineering aspect? How it is useful for petroleum exploration?	10M	C03	BL			
	8	a)	Explain about Electrical Resistivity method ? write about importance of the geophysical studies?	5M	CO4	BL			
		b)	Explain about Seismic method? What are the advantages of this method?	5M	CO4	BL			
OR									
	9		Which method is suitable for exploration of groundwater explain?	10M	CO4	BL			
	10	a)	Write about the geological factors of influencing the reservoir?	5M	CO5	BL			
		b)	Explain types of Dams with neat sketches?	5M	CO5	BL			
			OR						
	11		Explain Over break of the tunneling? With neat sketches?	10M	CO5	BL			

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