



## I B. Tech I Semester Regular Examinations, April-2022 ENGINEERING GEOLOGY

## (Only CE)

Time: 3 hours		ours Max. Marks:	as: 70	
Answer any five Questions one Question from Each Unit All Questions Carry Equal Marks				
		UNIT I		
1	a)	What is meant by weathering? Discuss the role of geological agents in weathering of rocks	(7M)	
	b)	Explain different types of river transport of sediments.	(7M)	
2		Or What are the various branches of Geology and explain their relevance form Civil Engineering point of view. UNIT II	(14M)	
3	a)		(71)	
3	a)	Explain the following: (i) Mode of formation of minerals (ii) Structures of Silicates.	(7M)	
	b)	Explain why granite is an ideal rock from civil engineering point of view.	(7M)	
		Or		
4	a)	Describe any FIVE physical properties in identification of mineral with	(7M)	
	b)	suitable mineral examples. Explain the quartz group of minerals <b>UNIT III</b>	(7M)	
5		Describe the different types of unconformities encountered in the nature. Draw neat sketches.	(14M)	
6	a)	Or Explain the classification of earthquakes in to tectonic and nontectonic types.	(7M)	
	b)	Write an essay on Earthquakes. UNIT IV	(7M)	
7	a)	What are the possible sources of ground water pollution	(7M)	
	b)	Detail the three possible mechanisms of Arsenic release into ground water.	(7M)	
		Or		
8		What are landslides? What are the causes and effects of landslides? Add a note on the preventive measures for landslides. UNIT V	(14M)	
9	a)	Describe the geological consideration for successful tunneling.	(7M)	
	b)	Write short notes on: i) BhakraDam ii) Hirakud Dam.	(7M)	
		Or		
10		<ul><li>Write short note on the following:</li><li>(a) Effects of tunneling on the ground.</li><li>(b) Lining of tunnel.</li><li>(c) Over break.</li></ul>	(14M)	

