

		(Civil Engineering)	
Time: 3 hoursMax. Marks:			
		Answer any <b>FIVE</b> Questions each Question from each unit All Questions carry <b>Equal</b> Marks	
1	a)	Write the main and allied branches of geology. With their importance.	[8M]
	b)	Discuss the scope of geology in water resources development.	[7M]
		Or	
2	a)	Explain briefly weathering of rock.	[8M]
	b)	What is geology? Explain mining geology in detail.	[7M]
3	a)	Write the significance of metamorphic rocks in civil engineering.	[8M]
	b)	Write a brief note on common rock forming minerals.	[7M]
		Or	
4	a)	Explain the physical properties of Quartz group of minerals.	[8M]
	b)	Describe the engineering importance of igneous rocks.	[7M]
5	a)	Explain the different parts of folds.	[8M]
	b)	Discuss the various causes of joints.	[7M]
		Or	
6	a)	Describe fault structures with neat sketches and also write their role in dam construction.	[8M]
	b)	What is meant by unconformities? Explain any two types of Unconformities.	[7M]
7	a)	Write in detail about landslides. Explain the measures to prevent them.	[8M]
	b)	Discuss the gravity method in geophysical investigation.	[7M]
		Or	
8	a)	Explain any two ground water exploration techniques.	[8M]
	b)	Describe seismic bells and Richter scale in detail.	[7M]
9		Explain briefly the purpose geology in Tunnelling.	[15M]
		Or	
10		Discuss the geological considerations in the selection of a dam site.	[15M]
		1 of 1	

## II B. Tech II Semester Supplementary Examinations, February - 2022 ENGINEERING GEOLOGY