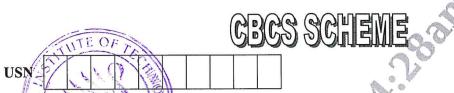
Time: 3 hours.



18CV36

Third Semester B.E. Degree Examination, July/August 2021

Engineering Geology

Max. Marks: 100

## Note: Answer any FIVE full questions.

1	a.	What is Geology? Describe the role of Geology in Civil Engineering.	(10 Marks)
	b.	Define Mineral. Describe following physical properties of Minerals:	
		i) FORMS ii) Fracture iii) Hardness.	(10 Marks)
2	a.	Give a detailed account of Interior of Earth.	(10 Marks)
	b.	Write the physical properties, chemical composition and uses of	
		i) Calcite ii) Hematite iii) Mica.	(10 Marks)
3	a.	What is Igneous Rock? Give the classification of Igneous Rocks based on origin.	(10 Marks)
	b.	What are Sedimentary Rocks? Explain primary structure of Sedimentary Rocks.	(10 Marks)
4	a.	What is Weathering? Explain causes and types of weathering.	(10 Marks)
	b.	What is Soil? Explain Soil profile.	(05 Marks)
	c.	Explain different types of Drainage patterns.	(05 Marks)
5	a.	What are Joint? Explain types of Joints and write importance in Civil Engineering	g field.
			(10 Marks)
	b.	What is Outcrop? Add note on: i) DIP ii) Strike.	(05 Marks)
	c.	Write a note on Rock Quality Determination (RQD).	(05 Marks)
6	a.	What is Fault? Give the classification of Faults with neat sketch.	(10 Marks)
	b.	Define Unconformity. Describe the types of unconformity and mention the field e	
		unconformity.	(10 Marks)
7	a.	Discuss the groundwater exploration by Electrical Resistivity method.	(10 Marks)
	b.	What is Rain Water Harvesting? Explain different methods of Rain Water	Harvesting.
	6	Eveloin Hydrologicallavala	(05 Marks) (05 Marks)
	c.	Explain Hydrological cycle.	(03 Marks)
0	_	What is Aquifer? Explain different types of Aquifer.	(10 Marks)
8	a. b.	Explain following:	(10 Marks)
	υ.	i) Causes of Sea water Intrusions in coastal area ii) Cyclones and its effects.	(10 Marks)
		1) Causes of Bea water intrusions in coastar area in Cyclones and its errors.	(10 1/11/11)
0	9	What is an Earthquake? Write the causes and effects of Earthquake.	(10 Marks)
9	a. b.	What is Remote Sensing? Explain important Application of Remote Sensing	
	υ.	resources field.	(05 Marks)
	c.	What is GPS? Describe application of GPS.  CMRIT LIBRARY	(05 Marks)
	0.	BANGALORE - 560 037	,/
10	a.	Define GIS. Explain application of GIS and components of GIS.	(10 Marks)
10	a. b.	What is Landslide? Explain main causes of landslide.	(10 Marks)
	υ.	11 Hat In Designation . Durham man causes of tamester.	

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