

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

Engineering Geology

Time: 3 hrs. Max. Marks: 100

		Note: Answer any FIVE full questions.	
1		What is Geology? Describe the role of Geology in Civil Engineering. Define Mineral. Describe following physical properties of Minerals:	(10 Marks)
		i) FORMS ii) Fracture iii) Hardness.	(10 Marks)
.2			(10 Marks)
		Write the physical properties, chemical composition and uses of i) Calcite ii) Hematite iii) Mica.	(10 Marks)
3		What is Igneous Rock? Give the classification of Igneous Rocks based on origin. What are Sedimentary Rocks? Explain primary structure of Sedimentary Rocks.	(10 Marks) (10 Marks)
4			(10 Marks)
	b.		(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 Eng		What are Joint? Explain types of Joints and write importance in Civil Engineering	g field.
	L.	What is Outsman? Add not and i) DID ii) Stailer	(10 Marks)
	c.	What is Outcrop? Add note on: i) DIP ii) Strike. Write a note on Rock Quality Determination (RQD).	(05 Marks) (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 curreonformity.	evidence of (10 Marks)
"7	at.	Discuss the groundwater exploration by Electrical Resistivity method.	(10 Marks)
		What is Rain Water Harvesting? Explain different methods of Rain Water	
	c.	Explain Hydrological cycle.	(05 Marks)
			- 1
8	a. b.	1 21	(10 Marks)
		i) Causes of Sea water Intrusions in coastal area ii) Cyclones and its effects.	(10 Marks)
9	a.	What is an Earthquake? Write the causes and effects of Earthquake.	(10 Marks)
	b.	What is Remote Sensing? Explain important Application of Remote Sensing	
		resources field.	(05 Marks)
	C.	What is GPS? Describe application of GPS.	(05 Marks)
10	0 a.	Define GIS. Explain application of GIS and components of GIS.	(10 Marks)
	.		(10 Marks)