

18CV36

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

Time: 3 hrs.

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:		
	υ.	· · · · · · · · · · · · · · · · ·	(10 Marks)	
		i) FORMS 11) Fracture 111) 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)	
	0.			
4		What is Weathering? Explain causes and types of weathering.	(10 Marks)	
4	a.		(05 Marks)	
	b.	What is Soil? Explain Soil profile.	(05 Marks)	
	C.	Explain different types of Drainage patterns.	(00 1.141115)	
		CL: A law artenes in Civil Engineering field		
5	a.	What are Joint? Explain types of Joints and write importance in Civil Engineering	(10 Marks)	
		2 DT (2) Ct-11-2	(05 Marks)	
	b.	What is Outcrop? Add note on: i) DIP ii) Strike.	2	
	C.	Write a note on Rock Quality Determination (RQD).	(05 Marks)	
			(40.7% 1.)	
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	evidence of	
		unconformity.	(10 Marks)	
7	a.	Discuss the groundwater exploration by Electrical Resistivity method.	(10 Marks)	
. /	b.		Harvesting.	
	υ,	What is Rain Water Harvesting. Explain	(05 Marks)	
	c.	Explain Hydrological cycle.	(05 Marks)	
	C.	Explain Hydrological Oyolo.		
0		What is Aquifer? Explain different types of Aquifer.	(10 Marks)	
8	a.		•	
	b.	Explain following:	(10 Marks)	
		i) Causes of Sea water Intrusions in coastal area ii) Cyclones and its effects	(101111111)	
		1 CC + CFth gyalco	(10 Marks)	
9	a.	What is an Earthquake? Write the causes and effects of Earthquake.		
	b.		of March	
		resources field.	(05 Marks)	
	C.	Will a CDCO Describe amplication of CDC	(05 Marks)	
		X [*]		
10) a.	Define GIS. Explain application of GIS and components of GIS.	(10 Marks)	
10	b	t til OF 1' oflandslide	(10 Marks)	
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