SET - 1

III B. Tech I Semester Supplementary Examinations, August-2021 ENGINEERING GEOLOGY

(Civil Engineering)

(Civil Engineering) Time: 3 hours Max. Marks: 70			
			: 70
Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answer ALL the question in Part-A			
3. Answer any FOUR Questions from Part-B			
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
	,	· · · · · · · · · · · · · · · · · · ·	[arks]
1.	,	Write the importance of petrology in Civil Engineering,	[2M]
	b)	Define mineralogy. What is the form of kyanite? What is stratigraphy?	[2M] [2M]
	c) d)	What are the measures to be taken prevent landslides?	[2M]
	e)	Write advantages and uses of geophysical prospecting in civil	[3M]
		engineering.	
	f)	Define dam. What are their types?	[2M]
PART -B (56 Marks)			
2.	a)	Define denudation. Describe the processes of chemical weathering of rocks.	[7M]
	b)	Describe the process of the rock weathering. Distinguish between	[7M]
		weathering and erosion.	
3.	a)	Define mineral. Explain the structure of the silicates.	[7M]
	b)	Define texture of sedimentary rock. Discuss the various types of	[7M]
		textures in sedimentary rocks.	
4.	a)	Classify and describe with neat sketches the different types of folds in	[7M]
	b)	rocks. Explain briefly about Cuddapah system and the vindhyan super	[7M]
	<i>ی</i>	group type, give economic importance of the rocks.	[, 1,1]
5.	a)	Define isoseismal lines. Explain seismic zone of India.	[7M]
	b)	Write short note on: i) Porosity and permeability; ii) confined and	[7M]
		unconfined wells.	
6.	a)	Explain seismic refraction method related to civil engineering.	[7M]
	b)	Describe the principle of magnetic method and explain it.	[7M]
7.	a)	What is a tunnel? What are their uses and types, give at least one	[7M]
	٦,١	example of Indian tunnel.  Explain the number of tunnels and how they influence of goalest for	[/7]\/[]
	b)	Explain the purpose of tunnels and how they influence of geology for successful tunneling?	[7M]

****