Q.P. Code: 18CE0108

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Re	g. No:	
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR		
(AUTONOMOUS) B.Tech II Year II Semester Supplementary Examinations February-2022		
ENGINEERING GEOLOGY		
т:	(Civil Engineering)	
1 im	e: 3 hours Max. Marks: 60 PART-A	
	(Answer all the Questions $5 \times 2 = 10$ Marks)	
1	a Discuss different kinds of weathering.	2M
	b Write a note on Rock forming minerals.c Define petrology.	2M 2M
	d Define structural geology	2M
	e What are seismic waves? How are they generated.	2M
	PART-B	
	(Answer all Five Units $5 \times 10 = 50 \text{ Marks}$)	
2	Explain the process of weathering of common rock like Granite.	10M
4	OR	TOWI
3	What is weathering? Enumerate the various mechanisms of rock weathering. Describe	101/4
	chemical Weathering in detail.	10M
	UNIT-II	
4	Explain the important physical properties of minerals that are commonly studied for their identification.	10M
	OR	
5	What is a rock forming mineral? Discuss process of formation of minerals in nature	10M
	UNIT-III	
6	Define term "rock" Describe the classification of rocks & their characteristics.	10M
7	OR Describe the columnar, flow and sheet structures of igneous rocks.	10M
	UNIT-IV	TOW
8	a Classify and describe the different types of faults? Give the various minor structures	
	found in the fault Zones.	6M
	b Discuss the effects of faulting on various engineering projects.	4M
9	ORa Define ground water? Write an essay on origin and distribution of ground water.	5M
,	 a Define ground water? Write an essay on origin and distribution of ground water. b Explain briefly about Electrical Resistivity method 	5M
	UNIT-V	
10	Explain the geological factors influencing water tightness and life of reservoirs.	10M
	OR	
11	a Describe the various effects of an earthquake. How do we locate the epicenter of an	5M
	earth quake.What are surface waves? Explain Rayleigh and love waves?	5M
	END	