Q.P. Code: 16CE121

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	Reg. No:										
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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

ı	ech III Year I Semester Regular & Supplementary Examinations Nov/I	Dec 2019
	ENGINEERING GEOLOGY	
	(Civil Engineering)	
Tin	3 hours Max. Mar	:ks: 60
	(Answer all Five Units $5 \times 12 = 60$ Marks)	
	UNIT-I	
1	No structure however is better than its foundation and the material it is made	of - 7M
	Justify.	
	Explain briefly volcanism.	5M
•	OR	(M
2	Enlist and explain the various landforms formed by the action of glaciers.	6M
	Describe in brief the important geological actions of river.	6M
2	UNIT-II	the CM
3	Explain the important physical properties of the minerals to be studied from point of civil engineering.	the 6M
	Describe the following minerals.	6M
	i) Quartz ii) Calcite iii) Garnet.	UIVI
	OR	
4	Explain the following mineral groups.	6M
	i) Feldspar ii) Olivine.	
	Distinguish the following minerals from one another.	6M
	i) Hornblende and Augite ii) Kyanite and mica iii) Quartz and Calcite.	
	UNIT-III	
5	Explain the classification of rocks and their characteristics.	6M
	Enlist and explain the argillaceous rocks.	6M
_	OR	43.5
6	Explain the structures of the metamorphic rocks	4M
	How do you distinguish from following one from the other i) Limestone and Marble ii) Sandstone and Quartzite	8M
	iii) Shale and Slate iv) Schist and Gneiss	
	UNIT-IV	
7	Define soil. How is it formed? Explain various types of soils occurring in India.	8M
,	Give the classification of unconformities.	4M
	OR	4141
8	Explain various investigations used in groundwater exploration.	6M
	Enlist and explain the terminology used in earthquakes.	6M
	UNIT-V	
9	Describe the various investigations to be carried out for the protection of reser	voir 6M
	life.	01/1
	Explain the importance of joint in the tunnel excavations.	6M
	OR	
10	Explain the problems likely to be encountered by the tunnels through folded	and 6M
	faulted rocks.	
	Describe the geology of the Nagarjuna sagar dam site in Andhra Pradesh.	6M