

Code No: P21EST02

R21

HALL TICKET NUMBER

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PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE
(AUTONOMOUS)

I B.TECH I SEMESTER END REGULAR EXAMINATIONS, FEB - 2023
ENGINEERING GEOLOGY
(CE Branch)

Time: 3 hours

Max. Marks: 70

Answer all the questions from each UNIT (5X14=70M)

Q.No.	Questions	Marks	CO	KL
UNIT-I				
1.	a) Explain about Geology and its branches.	[7M]	1	2
	b) Write about the importance of Geology in Civil Engineering.	[7M]	1	2
OR				
2.	a) Describe about the Mechanical Weathering of rocks.	[7M]	1	2
	b) Differentiate between the RIVER Erosion and RIVER Deposition.	[7M]	1	2
UNIT-II				
3.	a) Write about the common methods of study and identification of mineral based on the Physical, chemical and optical Properties.	[7M]	2	2
	b) Write the important note on economical minerals (Bauxite and Graphite).	[7M]	2	3
OR				
4.	a) Discuss about the Common forms of igneous rocks.	[7M]	2	3
	b) Descriptive study of metamorphic rocks (Marble).	[7M]	2	3
UNIT-III				
5.	a) Analyze with neat sketches about any Four types of folds.	[7M]	3	4
	b) What do you think about faults and also Write about its parts and types only.	[7M]	3	4
OR				
6.	a) Explain about the Joints- mechanism and its role in Civil Engineering.	[7M]	3	3
	b) Analyze with neat sketches about the types of unconformities.	[7M]	3	3
UNIT-IV				
7.	a) Discuss about the Geological controls of Ground Water Movement.	[7M]	4	3
	b) Write about the Earthquakes and its Effects.	[7M]	4	3
OR				
8.	a) Write the Causes of Landslides and mention the some Landslides in India.	[7M]	4	4
	b) Distinguish between the Electrical resistivity method Seismic method.	[7M]	4	4
UNIT-V				
9.	a) What do you understand on dams and their purpose?	[7M]	5	4
	b) What do you think about life of reservoir?	[7M]	5	4
OR				
10.	How would you explain the Geological considerations for effective Tunneling?	[14M]	5	4
