

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY-GURUJADA VIZINAGARAM
III B. Tech II Semester Regular/Supplementary Examinations November -2025
ELEMENTS OF CIVIL ENGINEERING
 (Civil Engineering)

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**

All Questions Carry Equal Marks

		<u>UNIT-I</u>	
1.	a)	Discuss the Historical development of a Civil Engineering.	[7M]
	b)	What is meant by Plans and maps its significance.	[7M]
		(OR)	
2.	a)	State the principles of Surveying.	[7M]
	b)	Explain the Importance of Planning in Construction Management.	[7M]
		<u>UNIT-II</u>	
3.	a)	Briefly explain types and uses of compass in Surveying.	[7M]
	b)	Present the computation of angles, meridians and dip of needle?	[7M]
		(OR)	
4.	a)	Explain about the different methods of leveling.	[7M]
	b)	Explain the terms i) Mean sea level (MSL) ii) Datum iii) Benchmark	[7M]
		<u>UNIT-III</u>	
5.	a)	Explain about the paints commonly used in buildings?	[7M]
	b)	What are the various ingredients required for manufacturing cement? State their functions.	[7M]
		(OR)	
6.	a)	Characterize and functional view in civil engineering fields on materials like glass and plastic?	[7M]
	b)	Explain about the Ferrous and Non Ferrous Metals.	[7M]
		<u>UNIT-IV</u>	
7.	a)	Present the common building components in reference to their functions and dimensions?	[7M]
	b)	Explain different standards and requirements of different parts of a residential house.	[7M]
		(OR)	
8.	a)	Explain the importance of building byelaws.	[7M]
	b)	Present the classification of buildings in reference to occupancy, structure and design loads?	[7M]
		<u>UNIT-V</u>	
9.	a)	What are the factors affecting selection of site for a reservoir?	[7M]
	b)	Present the ways of water conservation beyond computing water requirements?	[7M]
		(OR)	
10.	a)	Outline the features and planning leads on watershed development?	[7M]
	b)	Explain about the different Sources of water for mankind.	[7M]
