Code No: R193101H





III B. Tech I Semester Supplementary Examinations, June/July-2022 ELEMENTS OF CIVIL ENGINEERING

(Civil Engineering)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions **ONE** Question from **Each unit** All Questions Carry Equal Marks

UNIT-I

1.	a)	Explain the scopes of branches:	[8M]
	b)	 (i) Transportation Engineering (ii) Geotechnical Engineering. Explain intersection & radiation method of plane tabling? (OR) 	[7M]
2.	a)	Explain relevance of Civil engineering in the overall	[8M]
	,	infrastructural development of the country.	
	b)	Define surveying. What are the primary divisions of surveying?	[7M]
-		<u>UNIT-II</u>	
3.	a)	What are the two methods of measuring the horizontal angle using a Theodolite? When each method is advantageously used?	[8M]
	b)	Differences between prismatic compass and a surveyor's compass.	[7M]
(OR)			
4.	a)	Explain the different between tangential and stadia	[8M]
	1-)	tacheomertry. How will you determine the stadia constants?	[/7]]
	b)	Describe the methods of locating contours by indirect method.	[7M]
5.	a)	<u>UNIT-III</u> Explain the various test performed on timber as per Indian	[8M]
5.	aj	standards.	[OW]
	b)	Discuss briefly the defects and preservation of stones.	[7M]
	,	(OR)	
6.	a)	Explain about the paints commonly used in buildings?	[8M]
	b)	Describe with neat sketches the manufacturing process of conventional bricks.	[7M]
		<u>UNIT-IV</u>	
7.	a)	How height of building is evaluated? Explain the factor	[8M]
	b)	associated with this?	[7]]
	b)	What is meant by flexibility, circulation and sanitation? Explain its importance?	[7M]

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SET - 1

(OR)

- 8. a) Explain different features of hospitals, institutional, and [8M] buildings for recreation?
 - b) Explain different principles used in planning a residential [7M] building along with minimum dimensions of each room?

UNIT-V

9. a) What is runoff? What are the factors affecting Runoff? [8M]

b) What is Consumptive use of water? List the methods by which [7M] it is determined?

(OR)

- 10. a) What are the factors affecting selection of site for a reservoir? [8M]
 - b) What are the methods adopted for controlling silting of a [7M] reservoir?

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