Seat No.:		Q. Paper Code: FTC-A-031	SET	P

Fabtech Technical Campus, College of Engineering & Research, Sangola

(An Autonomous Institute)

Civil Engineering, Mechanical Engineering

Academic Year: -2025-26, Semester-I

Basic Civil Engineering (25UCE11001)

Regular End Semester Examination 2025-26 [Dec./Jan.]

Class:	F. Y. B. Tech.	**Day & Date:**	Monday, 19/01/2026
Duration:	03 Hrs.	**Max. Marks:**	60 Marks
Time:	10:00 AM TO 01:00 PM		

Instructions:

1) Q. No. 1 is compulsory. It should be solved in the first 30 minutes in the Page No.3 of answersheet.
2) Don't forget to mention the question paper set (P/Q/R) on the top of the page 3.

Q. 1	**Multiple Choice Questions (MCQs) Each question carries 1 mark**	**Marks: 10**	
		CO	**BL**
1	A ----- is a horizontal member which is placed across an opening to support the position of the structure above it. A. Doors B. Windows C. Sill D. Lintel	1	2
2	What is the primary function of shallow foundation A. To Transfer loads to a deeper B. To distribute loads over a larger area to reduce soil pressure C. To provide lateral support to the superstructure D. To resist the uplift forces	1	2
3	What is the primary function of cement concrete A. To provide strength B. To improve workability C. To reduce shrinkage D. To increase durability	2	2
4	Which of the following is an example of a shallow foundation A. Pile foundation B. Caisson foundation C. Spread footing D. Pier foundation	2	2
5	. What is the primary function of Mortar in masonry A. To provide structural support B. To bind brick of stones together C. To improve drainage D. To enhance aesthetic appeal	3	2
6	What is the primary function of RCC Lintel? A. To provide structural support to walls B. To distribute the loads over openings	3	2

	C. To enhance aesthetic appeal D. To improve insulation		
7	An offset is a distance of an object measured from the survey line A. lateral B. Horizontal C. Normal D. Inclined	4	2
8	Following sub branch of Civil Engineering deals with air pollution and water supply A. Geological Engineering B. Environmental Engineering C. Transportation Engineering D. Structural Engineering	4	2
9	As per IRC recommendation, maximum limit of super elevation for mixed traffic in plain terrain is A. 1 in 15 B. 1 in 10 C. 1 in 12.5 D. 1 in 20	5	2
10	Following angles can be set by open cross staff A. only 45^0 B. only 90^0 C. either 45^0 or 90^0 D. Any angle	5	2

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4) Make suitable assumptions if necessary and state it clearly.
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Q. No.	Questions	Marks	CO	BL
Q. 2	**Attempt any two of the following**	**10**		
1	Define Civil Engineering. Write down the Branches of Civil Engineering.	**5**	1	2
2	Explain the relevance of Civil Engineering with other branches.	**5**	1	2
3	Explain the role of Civil Engineer in various construction activity.	**5**	1	2
Q. 3	**Attempt any two of the following**	**10**		
1	Explain the components of Substructure.	**5**	2	2
2	Explain the types of Foundation.	**5**	2	2
3	Write the definition of Foundation & functions of Foundation.	**5**	2	1
Q. 4	**Attempt any two of the following**	**10**		
1	Define Surveying & Explain the types of Surveying.	**5**	3	1
2	Explain the principles of Surveying.	**5**	3	2
3	Define Levelling & Explain its types & uses.	**5**	3	1
Q. 5	**Attempt any two of the following**	**10**		
1	Explain Modes of Transportations.	**5**	4	2

2	Write Classification of Roadways.	**5**	4	1
3	Explain Nagpur Road Development Plan.	**5**	4	2
Q. 6	**Attempt any two of the following**	**10**		
1	Explain the primary natural sources of water.	**5**	5	2
2	Differentiate between surface sources and underground sources of water, providing examples of each.	**5**	5	3
3	Define Dam. Explain types of Dams.	**5**	5	2

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7	What is the primary function of shallow foundation A. To Transfer loads to a deeper B. To distribute loads over a larger area to reduce soil pressure C. To provide lateral support to the superstructure D. To resist the uplift forces	1	2
8	What is the primary function of cement concrete A. To provide strength B. To improve workability C. To reduce shrinkage	2	2

	D. To increase durability		
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