



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.														
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End - Term Examinations – MAY/ JUNE 2025

Date: 02-06-2025

Time: 01:00 pm – 04:00 pm

School: SOE	Program: B.Tech. (CIV)	
Course Code: CIV2046	Course Name: Construction Technology and Processes	
Semester: IV	Max Marks: 50	Weightage: 25%

CO - Levels	C01	C02	C03
Marks	4	24	22

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	List any two factors to be considered for selecting flooring material.	2 Marks	L1	C01
2	Mention two important functions of a window in a building.	2 Marks	L1	C01
3	Name two types of hoisting equipment.	2 Marks	L1	C02
4	List any two types of ready-mixed concrete based on mixing method.	2 Marks	L1	C02
5	Define a Green Building	2 Marks	L1	C03

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Describe various types of hoisting equipment used in construction with suitable examples.	10 Marks	L2	C02
Or					
7.	a.	Describe the functions and suitability of different types of blades used in bulldozers.	10 Marks	L2	C02

8.	a.	Differentiate between the types of excavators and their specific uses with examples.	10 Marks	L2	CO2
Or					
9.	a.	Highlight the advantages and disadvantages of ready-mix concrete in construction projects.	10 Marks	L2	CO2

10.	a.	Discuss the advantages and disadvantages of using Precast Concrete Systems in construction.	10 Marks	L2	CO3
Or					
11.	a.	Explain in brief the concept of 3D printing in construction. Also, bring out the benefits of adopting 3D printing in construction.	10 Marks	L2	CO3

12.	a.	A client approaches you to construct a residential building. The client wishes to make the building a green building and would like to obtain LEED certification for the building. List any 5 features to be incorporated in the building to obtain LEED Platinum Certification.	10 Marks	L2	CO3
Or					
13.	a.	Reflect on the advantages of automation in construction and briefly explain any three applications of Robots in construction.	10 Marks	L2	CO3