Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

End - Term Examinations – December 2025

Date: 10- 12- 2025 **Time:** 1.00pm to 04.00pm

School: SOE	**Program:** B-Tech	
Course Code : CIV2039	**Course Name:** Construction Quality and Safety	
Semester: V	**Max Marks**: 100	**Weightage**: 50%

CO - Levels	CO1	CO2	CO3	CO4	CO5	CO6
Marks	14	14	12	19	17	24

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. **10Q x 2M=20M**

1.	List any four principles of project organization.	**2 Marks**	**L1**	**CO1**
2.	What are the two major sectors of building construction?	**2 Marks**	**L1**	**CO1**
3.	Define benchmarking in construction quality management.	**2 Marks**	**L1**	**CO2**
4.	List the steps involved in ISO Certification process.	**2 Marks**	**L1**	**CO2**
5.	Why is it important to record injuries and safety performance on construction sites?	**2 Marks**	**L2**	**CO3**
6.	Describe the role of Personal Protective Equipment (PPE) in minimizing construction site hazards.	**2 Marks**	**L2**	**CO4**
7.	Identify and describe three main causes of construction site accidents.	**2 Marks**	**L2**	**CO4**
8.	Provide an example of a situation where uncertainty might occur during a construction project.	**2 Marks**	**L2**	**CO5**
9.	Why are environmental factors considered a significant source of risk in the civil engineering field?	**2 Marks**	**L2**	**CO6**
10.	Why is insurance important for managing environmental risks in construction?	**2 Marks**	**L2**	**CO6**

Part B

Answer the Questions. **Total Marks 80M**

11.	**a.**	Explain the Characteristics of the line organization structure in a construction project with flow chart?	**10 Marks**	**L2**	**CO1**
		Or			
12.	**a.**	List and explain the Characteristics of a construction project.	**10 Marks**	**L2**	**CO1**

13.	**a.**	Explain the difference between Quality Assurance (QA) and Quality Control (QC) in construction. Provide examples.	**10 Marks**	**L2**	**CO2**
		Or			
14.	**a.**	What are the benefits of benchmarking in construction quality management?	**10 Marks**	**L2**	**CO2**

15.	**a.**	List and explain five key aspects of safety in construction.	**10 Marks**	**L2**	**CO3**
		Or			
16.	**a.**	Why is it important to record injuries and safety performance on construction sites and what are safety performance indicators like LTIFR and TRIR, and how are they used?	**10 Marks**	**L2**	**CO3**

17.	**a.**	Classify construction site accidents based on nature, cause, and outcome with examples.	**15 Marks**	**L3**	**CO4**
		Or			
18.	**a.**	Why is risk assessment critical on construction sites? Provide examples of risks commonly found on high-rise building sites.	**15 Marks**	**L3**	**CO4**

19.	**a.**	List five common types of risks in construction projects and provide an example for each and why is complexity a major factor in construction risks?	**15 Marks**	**L3**	**CO5**
		Or			
20.	**a.**	What are some common reasons for risks in construction projects and discuss some Necessary Permits in Construction & Civil Works.	**15 Marks**	**L3**	**CO5**

21.	**a.**	What are some effective methods for risk mitigation in construction and discuss some necessary Permits in construction & civil works.	**20 Marks**	**L4**	**CO6**
		Or			
22.	**a.**	What are some strategies to minimize risks and mitigate losses in construction projects and how do safety risks differ from quality risks in construction projects?	**20 Marks**	**L4**	**CO6**