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PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 07-10-2025

Time: 11.45am to 01.15pm

School: SOE	Program: B.Tech (Civil Engineering)	
Course Code : CIV2100	Course Name: Building Material and Concrete Technology	
Semester: III	Max Marks: 50	Weightage: 25%

CO - Levels	C01	C02	C03	C04	C05
Marks	16	20	14		

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	What is meant by a stretcher bond?	2 Marks	L1	C01
2	What is meant by “seasoning of stones”?	2 Marks	L1	C01
3	Write two advantages of hollow concrete blocks	2 Marks	L1	C01
4	Name the four major Bogue’s compounds in Portland cement.	2 Marks	L1	C03
5	List the stages of hydration of cement.	2 Marks	L1	C03

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Describe the constituents of brick earth and their functions.	10 Marks	L2	C01
Or					
7.	a.	Explain the classification of aggregates based on size, unit weight, shape, and source with suitable examples.	10 Marks	L2	C01

8.	a.	Demonstrate how the mechanical properties of aggregates (strength, hardness, toughness, durability) influence the performance of concrete.	10 Marks	L3	CO2
Or					
9.	a.	Analyze how the moisture content in aggregates affects the properties of concrete and explain the different moisture conditions of aggregates in detail.	10 Marks	L3	CO2

10.	a.	Explain how AAC blocks are made and discuss their advantage.	10 Marks	L2	CO2
Or					
11.	a.	Discuss the properties, types, uses, and challenges of timber as a building material.	10 Marks	L2	CO2

12.	a.	Explain the manufacturing process of Portland cement by the dry process with a neat flow diagram.	10 Marks	L2	CO3
Or					
13.	a.	Write short explanatory notes on the following types of cement: (a) Rapid hardening cement; (b) Low heat cement; (c) White cement; (d) Pozzolanic cement.	10 Marks	L2	CO3