RollNo. | | | | | | | | | | |

ANNA UNIVERSITY (UNIVERSITY DEPARTMENTS)

B.E. /B.Tech / B. Arch (Full Time) - END SEMESTER EXAMINATIONS, NOV/DEC 2024

CIVIL ENGINEERING
3rd Semester
CE 23302 & Construction Engineering
(Regulation 2023)

Time:3hrs | Max.Marks: 100

CO1	Identify the good qualities of stones and determine the suitable properties of aggregates for construction through testing techniques
CO2	Have thorough knowledge on lime, cement, concrete and their products, along with the practical testing of their characteristics
CO3	Classify the bricks suitable for construction and recognize the market forms of other construction materials such as timber, plywood, steel, aluminium etc.
CO4	Explore the various construction practices and practical importance
CO5	Impart knowledge on appropriate service requirements and perform non-destructive tests at site locations

BL – Bloom's Taxonomy Levels
(L1-Remembering, L2-Understanding, L3-Applying, L4-Analysing, L5-Evaluating, L6-Creating)

PART- A(10x2=20Marks)
(Answer all Questions)

Q.No.	Questions	Marks	CO	BL
1	What are the simple field tests that can be carried out to determine the suitability of stone for construction works?	2	1	4
2	What is the frog? What is the purpose of providing frog in brick?	2	1	2
3	What is meant by hydraulic lime? In which construction work, do we have to use it?	2	2	3
4	What are the effects of the aggregates' shape and texture on concrete's strength and workability?	2	2	3
5	Write briefly about composite materials. Give an example of its applications.	2	3	2
6	Write the market forms of aluminium and their uses.	2	3	1
7	What is the purpose of underpinning? What are the different methods to adopt it?	2	4	3
8	Differentiate centering and shuttering.	2	4	2
9	What are the different active and passive fire protection systems can be installed in the buildings?	2	5	4
10	Write one method to provide sound insulation in Commercial buildings.	2	5	5

PART- B(5x 13=65Marks)

Q.No.	Questions	Marks	CO	BL
11 (a)	Explain the criteria for the selection of stones for construction works.	13	1	2
	OR			
11 (b)	Explain the different field and laboratory tests on bricks.	13	1	2