

Register No : _____

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, NOV /DEC 2024

Third Semester

Civil Engineering

CE3302 – Construction Materials and Technology

Regulations - 2021

Duration : 3 Hrs

Maximum : 100 Marks

PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
1.	State any four characteristic of good building stone.	RE	1	2
2.	Reason out for efflorescence in brick.	AN	1	2
3.	Enumerate the various market forms of timber.	UN	2	2
4.	What are the applications of FRP composites?	RE	2	2
5.	What are the factors to be considered for selection of suitable foundation type for a building?	EV	3	2
6.	What is diaphragm wall?	RE	3	2
7.	Name the equipment used for dewatering.	UN	4	2
8.	What are the essential requirements of a good material handling system?	AN	4	2
9.	List the advantages of construction planning.	AN	5	2
10.	What is a critical activity?	RE	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*13 = 65)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a Explain in detail about the manufacturing process of bricks with neat sketches.	UN	1	13
	Or			
	b Briefly discuss the following tests of stones:			
	i Water absorption test	AP	1	7
	ii Crushing strength test	AP	1	6
12.	a Explain the use and application of timber and glass in construction.	AP	2	13
	Or			
	b Write notes on:			
	i Types and uses of ceramics	AN	2	7
	ii Classification and use of Geotextiles	AN	2	6

13.	a	With neat sketches explain the bonds in brick masonry.	UN	3	13
		Or			
	b	Explain the following in detail:			
	i	Shoring	RE	3	7
	ii	Scaffolding	RE	3	6
14.	a	Name different compaction equipments. Describe the suitability of each equipment in detail.	AN	4	13
		Or			
	b	With neat sketches, describe any two dewatering and pumping equipments.	AP	4	13
15.	a	Describe in detail about PERT and CPM with a case study.	AN	5	13
		Or			
	b	Explain the various types and stages in construction planning.	UN	5	13

*PART – C (Marks 1*15 = 15)*

<i>Q.No</i>		<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
16.	a	Give the applications of steel with manufacturing process.	AP	2	15
		Or			
	b	Compare the applications of light weight concrete blocks with first class bricks.	AN	1	15