

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2025

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)

Q.No	Questions	BLT	CO	Marks
1.	Why dressing of stone is required?	L1	1	2
2.	Recall slaking of lime.	L1	1	2
3.	State the principal causes for timber decay.	L1	2	2
4.	List the types of steel bars used in RC Construction.	L1	2	2
5.	Compare shallow and deep foundation.	L2	3	2
6.	What is the need of acoustics in a building?	L1	3	2
7.	List any 4 equipments used for excavation.	L1	4	2
8.	What are the criteria for selecting equipment?	L1	4	2
9.	State the need for planning in construction.	L1	5	2
10.	Define critical path method.	L1	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

Q.No	Questions	BLT	CO	Marks
11.	a Explain the various tests made for assessing the quality of bricks.	L3	1	16
	Or			
	b Explain the concrete hollow blocks and lightweight concrete blocks.	L3	1	16
12.	a i Describe the manufacture of steel by open hearth process.	L3	2	10
	ii What are the merits of processed timber.	L3	2	6
	Or			
	b i Explain the mechanical properties of ceramics.	L3	2	10
	ii Describe the application of glass in civil engineering.	L3	2	6

13.	a	Explain the English and Flemish bond with neat sketch.	L3	3	16
		Or			
	b	Explain the shoring and underpinning method with neat sketch.	L3	3	16
14.	a	Discuss the equipments used in concreting work and describe the suitability of each equipment.	L3	4	16
		Or			
	b	Illustrate the different types of cranes used in construction with neat sketch.	L3	4	16
15.	a	Describe the usage of CPM and PERT with a case study.	L3	5	16
		Or			
	b	Draw and explain the network diagram and illustrate the following:	L3	5	16
		i) start and finish			
		ii) float			
		iii) critical path			
		iv) range			
		v) event and activity			