

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

April 2024 Semester End Main Examinations

Programme: B.E.

Branch: Civil Engineering

Course Code: 23CV3PCBMC

Course: Building Materials and Construction

Semester: III

Duration: 3 hrs.

Max Marks: 100

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

			UNIT - I	CO	PO	Marks
Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.	1	a)	Briefly explain the manufacturing process of bricks.	CO 1	PO1	10
		b)	Briefly explain the defects in painting.	CO 1	PO1	10
OR						
	2	a)	Define quarrying. Explain the different methods of quarrying.	CO 2	PO1	08
		b)	Write short notes on: i)Beams ii)Roofs iii)Floors	CO 3	PO1	12
			UNIT - II			
	3	a)	What are the causes of dampness? Explain different methods of damp proofing.	CO 2	PO1	10
		b)	Write a short note on : a) Spread footing b) Combined footing	CO 2	PO1	10
UNIT - III						
	4	a)	Explain various types of joints used in stone masonry.	CO 3	PO1	10
		b)	Define lintel. Explain the classification of lintel according to materials used in construction.	CO 3	PO1	10
			UNIT - IV			
	5	a)	Define Pitched roof. Explain types of Pitched roof.	CO 3	PO1	10
		b)	Explain the factors affecting the selection of the flooring material	CO 3	PO1	10
OR						
	6	a)	Explain the requirements of good stair.	CO 3	PO1	10
		b)	Explain briefly any Five with a neat sketch: i) Landing ii) Newel post iii) Hand rail iv) Flight v) Baluster vi) Riser and Tread	CO 3	PO1	10
			UNIT - V			
	7	a)	Explain the roles and responsibilities of a structural engineer.	CO 3	PO1	10
		b)	Explain the NBC guidelines and On-site safety protocol.	CO 3	PO1	10