

# 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.

<b>Important Note:</b> Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.			<b>UNIT - I</b>	<b>CO</b>	<b>PO</b>	<b>Marks</b>
	1	a)	Briefly explain the manufacturing process of bricks.	CO 1	PO1	10
		b)	Briefly explain the defects in painting.	CO 1	PO1	10
			<b>OR</b>			
	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
			<b>UNIT - II</b>			
	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
			<b>UNIT - III</b>			
	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
			<b>UNIT - IV</b>			
	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
			<b>OR</b>			
	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
			<b>UNIT - V</b>			
	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