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EAST POINT COLLEGE OF ENGINEERING & TECHNOLOGY
An Autonomous Institution Affiliated to Visvesvaraya Technological University (VTU) Belagavi

USN | | | | | | | | | | |

24CV41

Fourth Semester B.E. Degree Examination, May 2026
BUILDING MATERIALS AND CONSTRUCTION

TIME:3 hrs. Max.Marks:100

Note: 1. Answer any FIVE full questions, choosing ONE question from each MODULE
2. M: Marks, L: Bloom's level,C: Course outcomes.

		Module-1	M	L	C
Q.1	a	Summarize the requirement of good building stones.	8	L2	CO1
	b	Explain the various causes of deterioration of stones.	8	L2	CO1
	c	Present your views on timber as a building material in the current scenario.	4	L2	CO1
		OR			
Q.2	a	List classification of bricks as per their classes.	4	L2	CO1
	b	Explain the significance of sieve analysis and specific gravity tests on fine aggregates.	8	L2	CO1
	c	Explain the laboratory test procedures for determining the aggregate impact value and crushing value.	8	L2	CO1
		Module–2			
Q.3	a	Write short notes on spread footing and strap footing.	8	L2	CO2
	b	Explain the significance of safe bearing capacity of soil.	8	L2	CO2
	c	List the functions and requirements of good foundation	4	L2	CO2
		OR			
Q.4	a	Explain the requirements of brick masonry in building construction.	8	L2	CO2
	b	Draw neat sketches of Header, Stretcher, English and Flemish bond.	8	L2	CO2
	c	List the differences between load-bearing walls and partition walls	4	L2	CO2
		Module–3			
Q.5	a	List the functions of lintels.	6	L2	CO3
	b	Define the terms; balcony, chejja and canopy	6	L2	CO3
	c	Draw a neat sketch of an segmental arch. List the various components.	8	L2	CO3
		OR			
Q.6	a	Explain the requirements of a good floor.	6	L2	CO3
	b	Explain the procedure for selecting flooring materials.	6	L2	CO3
	c	Explain the various types of roofing materials.	8	L2	CO3
		Module–4			
Q.7	a	List the various types of doors. Explain any two in detail.	8	L2	CO3
	b	List the various types of windows used in building construction. Explain any two in detail.	8	L2	CO3
	c	List the criteria involved in selection of windows.	4	L2	CO3

		OR			
Q.8	**a**	Explain the requirements of good stairs.	**8**	**L2**	**CO3**
	b	Draw neat sketches of RCC dog-legged and open-well stairs.	**8**	**L2**	**CO3**
	c	Explain the terms; form work, scaffolding, shoring and under pinning.	**4**	**L2**	**CO4**
		Module–5			
Q.9	**a**	Explain the objectives of plastering.	**6**	**L2**	**CO4**
	b	Define the term mortar. Explain its types.	**6**	**L2**	**CO4**
	c	List the types of defects observed in plastering. Suggest the remedial measures.	**8**	**L2**	**CO4**
		OR			
Q.10	**a**	List and explain the causes of damp proofing.	**6**	**L2**	**CO3**
	b	Explain the various types of paints and its applications.	**6**	**L2**	**CO4**
	c	Explain the procedure of preparation of painting to old surfaces.	**8**	**L2**	**CO4**

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