

Third Semester B.E. Degree Examination, Dec.2024/Jan.2025

Building Materials and Construction

Time: 3 hrs.

Max. Marks:100

18CV34

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

(06 Marks)
(08 Marks)
(06 Marks)
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2	a.	What are the requirements of good building stones?	(06 Marks)
	b.	What are the constituents of good brick earth? Explain.	(06 Marks)
	c.	Which are the methods of seasoning of Timber? Describe them brief.	(08 Marks)

		Module-2	17
3	a.	Explain the functions of foundation.	(06 Marks)
	b.	How piles are classified based on function? Explain with sketches.	(06 Marks)
	c.	Draw the plan of one and half brick thick english bond. Mention its salie	ent features.
			(08 Marks)

OR

4	a.	Differentiate between strip footing and strap footing with sketch.	(06 Marks)
	b.	Write a note on Ashlar type of stone masonry.	(06 Marks)
	c.	Describe the construction and necessity of Grillage foundation with its plan	sketch.
			(08 Marks)

Module-3

5	a.	Draw a neat sketch of an arch and explain the technical terms used.	(08 Marks)
	b.	Explain i) Chejja ii) Canopy iii) Balcony iv) Lintel.	(08 Marks)
		Write a note on stability of arch.	(04 Marks)

6	a.	List the types of flooring and explain the method of laying of cement concrete flooring in	
		detail. (08 Marks)	
	b.	List the classification of pitched roof. With neat sketches explain any two of them. (08 Marks)	
	0	What are the factors to be considered while selecting a roof covering? (04 Marks)	

Module-4

			Module			
7	a.	Differentiate brick layer's scaff	folding over Mas	on's	Scaffolding.	(06 Marks)
	b.	What are the requirements of g	ood stair? Briefly	y exp	lain the types of stairs.	(06 Marks)
		With a neat sketch, explain i)			Dormer window.	(08 Marks)

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8	a.	Explain Raking shore with a neat sketch.	(06 Marks)
	b.	Write the requirements of locating door and window.	(06 Marks)
	c.	Explain salient features of framed and paneled double shutter door with sketch.	(08 Marks)
		Module-5	
Q	а	What are the objectives of plastering? Explain the defects in plastering.	(10 Marks)
,	b.	Briefly explain the methods of damp proofing.	(10 Marks)
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0	a	Explain the method of laying stucco plastering and lathe plastering.	(10 Marks)
U	h	Explain the constituents of a paint and explain the procedure of painting on	new wood
	υ.	Explain the constituents of a paint and superior	(10 Marks)

works.