CBCS SCHEME



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17CV36

Third Semester B.E. Degree Examination, Dec.2018/Jan.2019 Building Materials and Construction

Time: 3 hrs.

Max. Marks: 100

	Note: Answer any FIVE full questions, choosing ONE full question from each module.			
		Module-1	(08 Marks)	
1	a.	Explain physical and chemical classification of rocks. List and explain Laboratory tests on bricks.	(06 Marks)	
	b. c.	Explain bulking of sand.	(06 Marks)	
	C.	Explain bulking of said.	(
		OR		
2	a.	Which are the constituents of good brick earth? Explain.	(06 Marks)	
	b.	What is Quarrying of stone? Explain methods of Quarrying.	(08 Marks)	
	c.	Explain the importance of shape, size and texture of coarse aggregates in cemer	nt concrete	
		making.	(06 Marks)	
		Module-2	(06 Morks)	
3	a.	What is foundation? Explain the functions of foundation.	(06 Marks) (06 Marks)	
	b.	Explain strip footing and strap footing with sketches. What are the special features of English bond? Explain with 1½ brick thick wall.	(08 Marks)	
	c.	What are the special features of English bolid: Explain with 172 broke their with	(001.201.20)	
		OR O		
4	a.	What is pile foundation? Explain with sketches the classification of pile foundation	n based on	
		its function.	(06 Marks)	
	b.	Differentiate between Random rubble masonry and coursed rubble masonry.	(06 Marks)	
	c.	Draw the plan of 1½ brick thick Flemish bond and explain its salient features.	(08 Marks)	
_	220	Module-3		
5	a.	Explain the following with sketches: (i) RCC lintel (ii) Stone lintel.	(06 Marks)	
	b.	Discuss various modes of failure of an arch and what are its remedies?	(06 Marks)	
	c.	Draw the sketch of king post wooden roof truss (half part) and label its parts.	(08 Marks)	
	pa			
	V	OR		
6	a.	Mention the types of sloped roof. Explain any three types of sloped roof with sket	ches.	
		COLG - 20 What are the commonants of ground	(08 Marks)	
	b.	What are the requirements of good floor? What are the components of ground	(06 Marks)	
		mosaic flooring? What is an arch? Draw the sketch of elemental arch.	(06 Marks)	
	c.	what is an arch? Draw the sketch of elemental arch.	(00 1111115)	
		Module-4		
7	a.	Explain salient features of framed and panelled door with sketch (Double shutter)	. (08 Marks)	
,	b.	Differentiate between Bay window and corner window with sketches.	(06 Marks)	
	c.	What are the requirements of good stair?	(06 Marks)	
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OR

Q	0	Design a stair-case for a residential building using stair hall 2.5m × 5m.	The vertical
O	a.	Design a stan-case for a resident of the land of the l	(08 Marks)
		distance between the floors is 3.6m. Sketch the plan of staircase.	(00 Marks)
		distance between a second	(06 Marks)
	b.	What is shoring? Explain Raking shore with a sketch.	,
		of leasting door and windows?	(06 Marks)
	C.	What are the requirements of locating door and windows?	
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Module-5

0		Discuss the defects in plastering.	(08 Marks)
9	a.	Discuss the defects in plastering.	(06 Marks)
	h	Name and explain the constituents of oil paint.	(00 Marks)
	U.	Name and explain the constitution of the second of the sec	(06 Marks)
	C	What are causes of damping in the building and what are its remedies?	(00 Marks)

OR 10 a. Explain the objects of plastering and types of plaster finishing. b. Explain the procedure of painting for the following A (i) New wood work surface (ii) New plastered surface c. Differentiate between stucco plastering and lathe plastering. ***Control 2 of 2	c. What are causes of damping in the building and what are its remedies?	(06 Marks)
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(i) New wood work surface (ii) New plastered surface (iii) New plastered surface (iv) New plastered su	b. Explain the procedure of painting for the following	
c. Differentiate between stucco plastering and lathe plastering. (06 Marks)	(i) New wood work surface	(06 Marks)
2 of 2	(ii) New plastered surface	
2 of 2	c. Differentiate between stucco plastering and lathe plastering.	(00 11,211,212)
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