GBCS Scheme

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Second Semester B.Arch. Degree Examination, June/July 2018 Materials and Methods in Building Construction – II

Time: 4 hrs. Max. Marks: 100

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

		ONE full question from each module.	
		Module-1	
1			
ı	0	Draw to suitable scale king post roof timber truss for a porch of $4M \times 6M$.	
	a. b	Key plan	(04 Marks)
	b.	Plan to enlarged scale	(06 Marks)
	c. d.	Sectional elevation	(06 Marks)
	u.	Any one important detail.	(04 Marks)
•		OR	- 600 p
4	a.`	Explain with sketches the use of G.I sheet for roofing.	(05 Marks)
沙洋	. ხ.	Explain steel trusses and its elements with neat sketches.	(05 Marks)
	c.	Explain with neat sketches types of roof coverings.	(10 Marks)
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		Madela 2	
		Module-2	
3		Write short notes on:	
	a.	Grades of concrete	(07 Marks)
	b.	Water cement ratio.	(07 Marks)
	c.	RMC.	(06 Marks)
		OR ALLOW DE	
4	a.	Describe in detail the ingredients of cement concrete.	(10 Marks)
	b.	List various types of cement. State briefly the application of each type.	(10 Marks)
		Module-3	
5		Draw to suitable scale an RCC column of size 230 × 230 mm and RCC footing	1200 × 1200
		× 600mm. Assuming necessary diameter and spacing draw the following:	1200 × 1200
	a.	Plan.	(07 Marks)
	b.	Section	(07 Marks)
	c.	Isometric view.	(06 Marks)
			(oo marks)
		OR OR	
6	a.	Differentiate between construction joints and expansion joints with sketches.	(10 Marks)
	b.	Explain with neat sketches raft and grillage foundation.	(10 Marks)
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Module-4

7 Define staircase and explain the types of staircase with neat sketches. (20 Marks)

OR

8 Draw double stringer timber staircase in 1:10 scale labeling all the parts.

a. Plan
b. Sectional elevation
c. Any one important detail.
(06 Marks)
(10 Marks)
(04 Marks)

Module-5

9 Explain with neat sketches:

a. Brick and stone stairs
b. Concrete and wood stairs
c. Steel and timber stairs.
(06 Marks)
(07 Marks)
(07 Marks)

OR

Design a deg leg RCC folded plate staircase for a building with floor height of 3000mn Draw to suitable scale:

a. Plan
b. Sectional elevation
c. One important detail.
(06 Marks)
(10 Marks)
(04 Marks)

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