CBCS SCHEME

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Seventh Semester B.Arch. Degree Examination, June/July 2019 Materials and Methods in Building Construction - VII

Tin	ne: 4	hrs. Max. N	farks: 100							
	N	otal August - FILE C. II								
	IN	ote: Answer any FIVE full questions, choosing ONE full question from each me	odule.							
		Module-1								
1		A ward to be of size $1.8m \times 2.1m \times 0.6m$ depth is required for a residence	nranara tha							
		following details:	prepare the							
	a.	Plan cross sectional elevation, transverse sectional elevation to 1:20 scale.	(10 Marks)							
	b.	Any two important details to 1:5 scale.	(10 Marks)							
		Co Z								
2		A wooden room divides over showers in it is								
-		A wooden room divider cum showcase is required for a residence. T $2m \times 1.5m \times 0.6m$. Provide the following details.	he size is							
	a.	Plan, cross sectional elevation and transverse sectional elevation to 1:20 scale.	(10 Marks)							
	b.	Any two important details to 1:5 scale.	(10 Marks)							
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		Module-2								
3		Design a kitchen for a residence of size 3m × 6m and it is attached to dining ha	all. Provide							
	a.	the following details: Floor plans below and above counter level to scale 1:20.	******							
	b.	Two important sections with details 1:20 scale.	(10 Marks) (10 Marks)							
		(No.)	(10 Marks)							
		OR								
4		Design a work station for a computer lab to accommodate for 4 people. I	Provide the							
	a.	following details. Plan and sections to 1:20 scale.								
	b.	Any two important details. (Assume suitable scale).	(10 Marks)							
	1973/19		(10 Marks)							
		Module-3								
5	a.	Write a brief note on acoustical ceiling.	(05 Marks)							
	b.	Sketch any two false ceiling details with aluminium members (with dimensions).								
	C.	Write a brief note on pre stressing.	(05 Marks)							
		OR OR								
6		A room of size 4.5m × 6.2m is required to be provided with 600 × 600 fa	alse ceiling							
		materials.								
	a.	Draw a reflected F/C plan to scale 1:20.	(06 Marks)							
	b.	Show any two important details of the false ceiling (Assume suitable scale).	(08 Marks)							
	c.	Write a brief note on post tensioning.	(06 Marks)							
	Module-4									
7	a.	Explain mat foundation with neat sketches, with dimensions.	(05 Marks)							
	b.	Sketch and explain different types of concrete pillar, with dimensions.	(15 Marks)							
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OR

8 a. Explain the process of execution of cost in situ pile foundation with sketches.
 b. Explain sheet pile foundation with neat sketches, with dimensions.
 (10 Marks)

Module-5

- 9 a. Discuss the various truss configurations that can be made with Bamboo, with neat sketches:
 (10 Marks)
 - b. What is prefabrication? Explain with sketches.

(10 Marks)

OR

10 a. Discuss the non-chemical or traditional methods of preservation of Bamboo. (10 Marks)

b. Explain pre fabrication with reference to slabs, beams and columns with neat sketches.

(10 Marks)

2062