CBCS SCHEME

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Second Semester B.Arch. Degree Examination, Dec.2018/Jan.2019 **Materials and Methods in Construction - II**

Tir	ne: 4	4 hrs.		Max. Marks: 100
	No	ote: Answer any FIVE full questions, cho	osing ONE full question	from each module
	1.0			ii oiii cacii iiioaaic.
1			ule-1	(00 75 1
1	a. b.	Compare wooden and steel truss roof. Sketch fixing of G.I. sheet to steel, and wo	anden truss roof to Manas	(08 Marks)
	υ,	Sketch fixing of G.f. sheet to steel, and we	Joden truss foot to Manga	alore tiles. (12 Marks)
		0	R	
2		A resort entrance lobby is in need of wood	den truss of king post size	$9m \times 15m$. Draw:
		Key plan – scales 1:100		(04 Marks)
		Part plan – scale 1:25		(06 Marks)
		Elevation of truss scale 1: 25		(06 Marks)
		One joint detail scale 1:10.		(04 Marks)
		Mod	ule-2	*
3		What is cement? Explain its various types		(20 Marks)
				(20 1/14/18)
		O	R	Control of the contro
4	a.	What is concrete? Explain properties and		(12 Marks)
	b.	What is mix and proportioning in concrete	e? Explain.	(08 Marks)
		V-		
5	a.	What is admixture? Explain its types, use	ule-3	(10 Marks)
3	b.	Explain with sketches isolated footing.	s and disadvantages.	(10 Marks)
	0.	Explain with sketches isolated looting.		(TO Marks)
		O	R	
6	a.	Explain with sketches combined RCC Foo	otings.	(10 Marks)
	b.	Explain with sketches Raft foundation.		(10 Marks)
	4	Mod	ule-4	
7		Sketch elevation of staircase. Show all p		technical terms related to
•		staircase.	arto of it are explain an	(20 Marks)
0			OR	1 111 0 1
8		Draw plan and section of folded plate R.O.		
		1m and height of Rm 3m slab thickness –	13cm (show remnorceme	nt details). (20 Marks)
		Mod	ule-5	
9		Draw a plan and elevation of steel spira		for a residential building.
		(Assume the scale).		(20 Marks)
			OR .	
10		Design a composite stairs for a lobby of		w nlan and elevation and

10 Design a composite stairs for a lobby of institutional building. Draw plan and elevation and any one detail to the suitable scale. (20 Marks)