CBCS SCHEME

USN		15ARC2.2
Second Semester B.Arch. Degree Examination, Dec.2018/Jan.2019		
	Materials and Methods in Construction - II	
Tim	me: 4 hrs.	Marks: 100
Note: Answer any FIVE full questions, choosing ONE full question from each module.		
	Module-1	
1	a. Compare wooden and steel truss roof.	(08 Marks)
•	b. Sketch fixing of G.I. sheet to steel, and wooden truss roof to Mangalore tiles.	(12 Marks)
	b. Sketch haing of G.1. Sheet to Steet, and wooden transporter management units.	(12 1/11/11/11/11/11/11/11/11/11/11/11/11/1
	OR	
2	A resort entrance lobby is in need of wooden truss of king post size 9m × 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)
	Module-2	
3	What is cement? Explain its various types with application.	(20 Marks)
5	What is coment. Explain to various types with approximation	(=======,
	OR O	
4	a. What is concrete? Explain properties and uses.	(12 Marks)
	b. What is mix and proportioning in concrete? Explain.	(08 Marks)
	Module-3	
5	a. What is admixture? Explain its types, uses and disadvantages.	(10 Marks)
	b. Explain with sketches isolated footing.	(10 Marks)
	OR	403F I \
6	a. Explain with sketches combined RCC Footings.	(10 Marks)
	b. Explain with sketches Raft foundation.	(10 Marks)
	Module-4	
7	Sketch elevation of staircase. Show all parts of it and explain all technical te	rms related to
	staircase.	(20 Marks)
	OR	
8	Draw plan and section of folded plate R.C.C. staircase to suitable scale, width	
	1m and height of Rm 3m slab thickness – 15cm (show reinforcement details).	(20 Marks)
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Λ	Module-5 Draw a plan and elevation of steel spiral staircase of 1m wide for a residen	ntial huilding
9		(20 Marks)
	(Assume the scale)	(20 Maiks)

OR

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