## CBCS SCHEME

USN												15ARC7.2
-----	--	--	--	--	--	--	--	--	--	--	--	----------

## Seventh Semester B.Arch. Degree Examination, Dec.2018/Jan.2019 Materials and Methods of Building Construction – VII

Time: 4 hrs.		4 hrs. Max. M	Iarks: 100
	N	ote: 1. Answer any FIVE full questions, choosing one full question from each m	odule.
		2. Assume suitable data/scale if required.	
		3. Draw neat sketches wherever necessary. Assume suitable data/scale if req	quired.
		Module-1	
1		Provide design of construction details for a wordrobe of size 1.8m × 2.1m high a	and 600 mm
		deep with the following drawings:	
	a.	Plan, Section, Elevation (inside and outside) to a scale of (1:20).	(15 Marks)
	b.	Draw any one fixing detail. (1:5 scale)	(05 Marks)
_		OR Y	
2		Write short notes on:	
	a.	Particle Board.	(05 Marks)
	b.	HDF.	(05 Marks)
	C.	Plywood.	(05 Marks)
	d.	Veneers.	(05 Marks)
2	1	Module-2	(10 Mandas)
3	a.	Explain with sketches different types of hinges and channels used in interiors.	(10 Marks)
	b.	Explain with sketches different partition systems.	(10 Marks)
		OR	
4	a.	Explain with sketches modular kitchen with cabinet shelves.	(10 Marks)
4	a. b.	Design and detail a work station to seat 4 people with requisite storage. Draw pla	
	υ.	and section to scale 1:10.	(10 Marks)
		and section to seale 1.10.	(10 Marks)
		Module-3	
5		Design a false ceiling for a room size of 3.6m × 6m. Provide following details:	

5 Design a false ceiling for a room size of 3.6m × 6m. Provide following details

a. Reflected ceiling plan to	scale 1 : 20.	(10 Marks)
b. Cross section to scale 1:	: 10 (Partital section)	(06 Marks)
c. Any one detail.		(04 Marks)

## OR

6 Explain following with neat sketches:

a.	False ceiling.	(05 Marks)
b.	Cove lighting.	(05 Marks)
c.	Prestressed structures	(05 Marks)
d.	Post tensioned structures.	(05 Marks)

		15ARC /.2
	Module-4	(10 3/ 1-)
7	a. Explain with sketches different types of Raft foundations.	(10 Marks)
	b. Write short notes on:	
	(i) SBC of soil.	
	(ii) Grillage foundation.	
	(iii) Earth retaining structure - Sheet pile.	(10 Mayles)
	(iv) Earth retining structure – Gravity walls.	(10 Marks)
	OK.	
8	Write short notes on:	(10 Mowles)
	a. Pile foundations.	(10 Marks) (10 Marks)
	b. Different types of Ra foundations.	(10 Marks)
	Modulo 5	
	Module-5  Module-5  Module-5  Module-5	paretructure work
9	Design a security room of size 3m×3m using bamboo for complete sup	perstructure work.
	Provide following details:	(08 Marks)
	a. Plan – 1: 20 scale	(04 Marks)
	b. Section - 1: 20 scale.	(04 Marks)
	c. Elevation – 1:20 scale.	(04 Marks)
	d. Any one detail 1: 5 scale.	(04 Marks)
	OR	
10		
10		(10 Marks)
	<ul><li>a. Bamboo structures.</li><li>b. Prefabricated construction.</li></ul>	(10 Marks)
	b. I I clabificated construction.	(10 1/14/11/2)
	****	
Assessment to		
and any side and		
Auto Maria		
	Control Contro	
		•
	2 of 2	