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

Time: 4 hrs.	100	Max. Marks: 100
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		Street Y

- Note: 1. Answer any FIVE full questions, choosing one full question from each module.
 - 2. Assume suitable data/scale if required.
 - 3. Draw neat sketches wherever necessary. Assume suitable data/scale if required.

1		Provide design of construction details for a wordrobe of size 1.8m × 2.1m	high 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)

2	Write short notes on:	¥ .		
	a. Particle Board.	. "		(05 Marks)
	b. HDF.	Na.	AN .	(05 Marks)
	c. Plywood.	V.	6	(05 Marks)
	d. Veneers.	1		(05 Marks)

3 a. Explain with sketches different types of hinges and channels used in interiors.

b. Explain with sketches different partition systems.

(10 Marks)

4 a. Explain with sketches modular kitchen with cabinet shelves. (10 Marks)
b. Design and detail a work station to seat 4 people with requisite storage. Draw plan elevation and section to scale 1:10. (10 Marks)

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

a. Reflected ceiling plan to scale 1: 20.

b. Cross section to scale 1: 10 (Partital section)

c. Any one detail.

(10 Marks)

(06 Marks)

(04 Marks)

OR

Explain following with neat sketches:
 a. False ceiling.

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

	_	Module-4	(10.11-1-1-1
	7	Explain with sketches different types of Raft foundations.	(10 Marks)
		b. Write short notes on:	
		(i) SBC of soil.	
b.		(ii) Grillage foundation.	
		(iii) Earth retaining structure - Sheet pile.	(10 Manks)
		(iv) Earth retining structure – Gravity walls.	(10 Marks)
		Op	
	8	Write short notes on:	
	0	a. Pile foundations.	(10 Marks)
		b. Different types of Ra foundations.	(10 Marks)
		o. Different types of Ra foundations.	(10 Marks)
		Module-5	
_	9	Design a security room of size 3m×3m using bamboo for complete s	uperstructure work
		Provide following details:	aperstructure work.
		a. Plan – 1:20 scale	(08 Marks)
		b. Section – 1: 20 scale.	(04 Marks)
		c. Elevation – 1:20 scale.	(04 Marks)
		d. Any one detail - 1:5 scale.	(04 Marks)
P.		OR	
_	10	Explain the following with neat sketches:	
		a. Bamboo structures.	(10 Marks)
		b. Prefabricated construction.	(10 Marks)

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