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(02 Marks)

Semester B.Arch. Degree Examination, June/July 2023 Materials and Methods in Building Construction – IV

Tin	ne: 4	4 hrs.	Max. Marks: 100
	N/	ote: Answer any FIVE full questions, choosing ONE full question	on from each module
	1 🔻	one. Answer any 111 L jun questions, choosing of the jun question	a grom caen mounte.
		Module-1	
1	a.	Explain in detail different types of flat slab.	(10 Marks
-	b.	Explain with sketches difference between flat slab and conventio	
	٥.		(10 Marks
		OR .	*
2		Draw following details of a flat slab with drop panel of span 20 n	n × 16 m.
	a.	Plan	(08 Marks
	b.	Section	(06 Marks
	c.	Any two detail	(06 Marks
	•	Assume suitable scale	(11.00) (1.00)
		Albamo bartable bears	
		Module-2	
3		Design a Manglore Tile Filler slab for a residence. Draw following	ng details
J	a.	Plan	(10 Marks
	b.	Section	(06 Marks
	c.	Detail (any 1)	(04 Marks
	С.	Assume suitable scale.	(OTIVAL)
		Assume surtuole source.	
		OR	
1		Explain with sketches RCC Waffle slab.	(10 Marks
7	a. b.	Explain with sketches RCC Filler slab.	(10 Marks
	υ.	Explain with sketches Ree I flet slab.	(10 1111111
		Module-3	
5		Explain the different types of steel sections used in the con-	struction with its uses an
3	92	properties.	(20 Marks
		properties.	(20 Marks
		OR	
6		Sketch the following junction details of structural steel sections.	
U		Column to beam junction	(10 Marks
	a. b.	Beam to beam junction	(10 Marks
	υ.	Beam to seam junction	(10 Warks
		Module-4	
7			la .
7	0	Draw steel window of size 1m × 1.35 m showing following detail	
	a. L	Plan	(06 Marks
	b.	Elevation	(06 Marks
	C.	Section .	(06 Marks

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

d. Any one detail

Assume suitable scale.

OR

8 Explain the following with neat sketches.
a. Collapsible gate
b. Rolling shutters
(10 Marks)
(10 Marks)

Module-5

9 Draw aluminium sliding window of size 1 m × 1.35m showing following details.

a. Plan
b. Elevation
c. Section
d. Any one detail.
(06 Marks)
(06 Marks)
(06 Marks)
(02 Marks)

OR

Draw plan, elevation, section with joinery detail of aluminium partition of size 6m × 3m (height). (20 Marks)