CBCS SCHEME

USN	18	ARC42
	Fourth Semester B.Arch. Degree Examination, Dec.2023/Jan.20 Materials and Methods of Building Construction –)24 IV
Tim	e: 4 hrs. Max. Ma	rks: 100
	Note: Answer any FIVE full questions, choosing ONE full question from each mod	ule.
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	Module-1 A Datail of flat clab with column head to	a snan of
1	Draw Plan, Section and Reinforcement. Detail of flat slab with column head to 20 m × 15 m slab.	(20 Marks)
2	Write the difference between convention type of slab and flat slab. With rein	forcement
_	details wherever necessary.	(20 Marks)
	Module-2	
3	a. Explain the method of construction of filler slab using Terracotta pots as fillers.	(10 Marks) (05 Marks)
	b. Write the criteria for filler material selection. c. Advantages of filler slab.	(05 Marks)
	OR Draw plan, section and reinforcement. Details of Waffle slab for a span of 10 m ×	15 m.
4	Draw plan, section and femiliotechicit. Details of warne state for a span-	(20 Marks)
	Module-3	
5	Write different types of steel and mention its benefits and limitations.	(20 Marks)
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6	OR Draw a plan to suitable scale of a workshop with span of 20 m ×12 m. Draw	following
	details. (i) Plan showing column and beam details.	(06 Marks)
	(ii) Draw beam to column connection details.	(07 Marks)
	(iii) Draw column to footing connection details.	(07 Marks)
	Module-4	
7	Draw plan, elevation and section with two details of steel door of size 1.0 m×2.1	m.
	OR	(20 Marks)
8	Draw plan, elevation, section and any two details of rolling shutter for a span of 3	3 m×2.5 m. (20 Marks)
_	Module-5 Explain types, properties, uses and manufacturing process of aluminium as	a building
9	material.	(20 Marks)

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

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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OR

(20 Marks)

Draw plan, section, elevation and any two details of aluminium door.