USN		S SCHEME	IBRARY
		Ba	ingalore *
	Seventh Semester B.Arch.	Degree Examination, J	Jan./Feb. 2023
	Materials & Methods	in Building Const	ruction VII
Tin	ne: 4 hrs.	54	Max. Marks: 100
	Note: Answer any FIVE full question	s, choosing ONE full question	r from each module.
1		Module-1	Y
1	Design a bedroom wardrobe with 0.6 m deep with the following draw	an inbuilt dressing unit of si	ze $2.4m \times 3.0m$ high and
	a. Draw a plan, elevation and section t		(15 Marks
	b. Draw the detail of the drawer with t		) (05 Marks
2	Explain the material properties bries	OR C	
-	a. MDF and Particle board.	ily with sketches .	(10 Marks)
	b. Black board and laminate.	- J	(10 Marks
	A C	¥7	
3	Design a wooden partition wall of	Module-2	mana The next tion and
5	Design a wooden partition wall of should have a door incorporated in i	$s_{12}e_{2.111} \times 2.111$ for an office	space. The partition was
	a. Draw plan, elevation and section to		(15 Marks)
	b. Draw the joinery detail of the junction		
4	Design a work station to seat 2 peop	OR Ne with book shelves and file of	abinets
	a. Draw plans at 2 levels to a scale of (		(10 Marks)
	b. Draw the elevation.	S S	(05 Marks)
	c. Detail of the cabinet to a scale of (1	: 10)	(05 Marks)
		Module-3	
5	Design a false ceiling for a passage		e following details:
	a. Reflected ceiling plan to a scale of (		(05 Marks)
	b. Cross section to a scale of (1 : 10)	S	(10 Marks)
	c. Any one detail to a scale of $(1:5)$	- Van	(05 Marks)
	0	OR	
6	a. What are the advantages and disadva	1-4	? (10 Marks)
	b. Define Post Tensioned concrete. Exp	plain the principle behind Post	
	r Marine		(10 Marks)
		Module-4	
7	a. Explain with neat sketches, different		(10 Marks)
	b. Write short notes on precast piles and		walls. (10 Marks)
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		1 of 2	
	V I		

(10 Marks)

## OR

- 8 a. Describe classification of piles based on materials. Draw neat sketches. (10 Marks)
  - b. Write short notes on different types of raft foundations.

## Module-5

9 a. What are the advantages of prefabrication system in the construction industry? (10 Marks)
b. Explain the relevance of 3D printing as an advanced method of building construction.

(10 Marks)

## OR

- 10 Design a room of size 3.3m×3.3m using bamboo. Draw the following details:
  - a. Section through the room scale (1:20).
  - b. Roof details, scale (1 : 10).
  - c. Wall panel detail to a scale of (1:10)

(10 Marks)

(05 Marks) (05 Marks)

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