			SNRV Schoolog
	GL	BCS SCHEME	LIBRARY
USN		6	* Bangalore * 15ARC72
Seventh Semester B.Arch. Degree Examination, Jan./Feb. 2021			
Materials and Methods in Building Construction - VII			
 Time: 4 hrs. Note: 1. Answer any FIVE full questions, choosing ONE full question from each of 2. Assume Scale & Details / Dimensions wherever necessary. 1 Explain the properties and uses of the following materials : a. Plywood. b. Particle board. c. Hard board. d. MDF. 2 Design and draw construction details for a wardrobe 1.2m wide × 2.1m high and 600 with the following drawings : a. Plan, elevation and section to a suitable scale. b. Anyone fixing detail of shutter. 3 Design and draw plan, elevation and cross sectional details of a cabinet size 1.8m wide × 1.2m high. 			Max. Marks:100
		Construction of the second sec	
Note: 1. Answer any FIVE full questions, choosing ONE full question from each module. 2. Assume Scale & Details / Dimensions wherever necessary.			
			iecessiiry.
1	Explain the properties and uses of t	he following materials	ζ×.
	a. Plywood.b. Particle board.		(05 Marks)
	c. Hard board.	E.	(05 Marks) (05 Marks)
6	d. MDF.		(05 Marks)
	and the second s	OR	
2	ide \times 2.1m high and 600mm deep		
5	with the following drawings : a. Plan, elevation and section to a		(15 Marks)
	b. Anyone fixing detail of shutter.	Y S	(05 Marks)
3	Design and draw plan alovation	MODULE - 2	datails of a schingt shelf of
	Design and draw plan, elevation size 1.8 m wide $\times 1.2 \text{ m}$ high.		(20 Marks)
	and the second s	OR	
4			
	scale.	one junction details of the d	(20 Marks)
	TY O	MODULE - 3	
4 5		letails of false ceiling using	aluminum members for a room of
	size 5m × 6m. Provide the follo i) Reflected ceiling plan	 ii) Cross section to scale. 	(15 Marks)
	b. Explain materials used for acou		(05 Marks)
i	· .	OR OR	
6	a. Explain different methods of a sketches and application of the		ete structural members with neat (10 Marks)
	b. Sketch construction details of p		
	1	MODULE - 4	
7	a. Enumerate the difference betwee help of neat sketch.	een precast piles and cast –	in $-$ situ piles foundation with the
	b. What are Mat foundation? Expl	ain in detail its applications	(10 Marks) . (10 Marks)
	and the second sec	1 of 2	

7

OR

8 a. Explain with the help of neat sketches, construction details of earthen walls. (10 Marks)
b. Enumerate different types of pile foundation. (10 Marks)

MODULE - 5

- 9 Draw construction details for a room of size 5m × 4m using bamboo for complete super structure work. Provide the following drawings :
 - a. Plan.
 - b. Elevation.
 - c. Section.

(07 Marks) (06 Marks)

(07 Marks)

- 10 a. What is Prefabrication? Explain advantages and relevance of the same in the Indian context. (10 Marks)
 - b. Sketch the fixing details of prefabricated elements :
 - i) Column to column ii) Column to slab. (10 Marks)