# 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.

# CBCS Schama

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USN	1		15ARC2.2
Second Semester B.Arch. Degree Examination, June/July 2018			
Materials and Methods in Building Construction – II			
		(1) \( \text{\tin}\text{\tetx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\texi}\text{\text{\tex{\texit{\text{\text{\text{\texi}\text{\text{\texi}\text{\texit{\ti}\tinttit{\texi}\text{\texit{\texi}\text{\texi}\text{\texi}\tex	
Tiı	me:		lax. Marks: 100
		Note: Answer any FIVE full questions, choosing	
		ONE full question from each module.	
		Module-1	
Draw to suitable scale king post roof timber truss for a porch of $4M \times 6M$ .			
	a.	Key plan	(04 Marks)
	b. с.	and the second second	(06 Marks)
	d.	Any one important detail.	(06 Marks)
		They one important detain.	(04 Marks)
		OR	
2	a.	Explain with sketches the use of G.I sheet for roofing.	(05 Marks)
	<b>5</b> .	Explain steel trusses and its elements with neat sketches.	(05 Marks)
	C.	Explain with neat sketches types of roof coverings.	(10 Marks)
		Madula 2	>
		Module-2	
3		Write short notes on:	
	a.	Grades of concrete Water cement ratio.	(07 Marks)
	C.	RMC.	(07 Marks)
	C.	RMC.	(06 Marks)
		OR	
4	a.	Describe in detail the ingredients of cement concrete.	(10 Marks)
	b.	List various types of cement. State briefly the application of each type.	(10 Marks)
		Module-3	
5 Draw to suitable scale an RCC column of size $230 \times 230$ mm and RCC		oting 1200 × 1200	
× 600mm. Assuming necessary diameter and spacing draw the following:			
	a. h	Plan.	(07 Marks)
	b. c.	Section Isometric view.	(07 Marks)
	0.	150HELLIC VIEW.	(06 Marks)
		OR	
6	a.	Differentiate between construction joints and expansion joints with sketche	s. (10 Marks)

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(10 Marks)

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(06 Marks)

### Module-4

7 Define staircase and explain the types of staircase with neat sketches. (20 Marks)

### OR

- 8 Draw double stringer timber starcase in 1:10 scale labeling all the parts.
  - a. Plan
  - b. Sectional elevation (10 Marks)
  - c. Any one important defail. (04 Marks)

### Module-5

- 9 Explain with neat sketches:
  - a. Brick and stone stairs (06 Marks)
    - concrete and wood stairs (07 Marks)
    - c. Steel and timber stairs. (07 Marks)

### OR

- Design a deg leg RCC folded plate staircase for a building with floor height of 3000mm. Draw to suitable scale:
  - a. Plan (06 Marks)
  - b. Sectional elevation
    c. One important detail. (10 Marks)
    (04 Marks)

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