CBCS SCHEME

Second Semester B.Arch. Degree Examination, June/July 2023 Materials and Methods in Building Construction — II Time: 4 hrs. Max. Marks: 100 Note: 1. Answer any FIVE full questions, choosing ONE full question from each module. 2. Draw relevant sketches, wherever necessary. Module-1 With the help of a neat labeled sectional elevation for each differentiate between the king post and the queen post timber trusses. (20 Marks) OR Differentiate between the following, with neat sketches: i) Timber and steel trusses ii) Lena — to and collar roof. (12 Marks) Module-2 What are the different properties of steel and how are they impacted? (10 Marks) Sketch and name the different rolled steel section used in construction? (10 Marks) OR Write short notes on the following: i) Acid resistant cement ii) Admixture iii) Water — cement ratio iv) White cement. (20 Marks) Module-3 Explain the following with respect to reinforced cement concrete: i) Form work ii) Curing iii) Construction joint iv) Expansion joint. (20 Marks) OR Draw neat labeled sketches and explain the following: ii) Raft foundation ii) Isolated footing iii) Grillage foundation iv) Combined footing. (20 Marks) Module-4 A gallery of a Museum, measures 7000mm × 7000mm. Design a RCC folded plate staircase as a straight flight, attached to its wall on one side and connecting to the mezzanine level at 2m height width of the stairs is 1500mm. Flooring is of marble and railing is of stainless steel. Draw the following to the specified scale: i) Key Plan (Scale 1: 100) (03 Marks)			
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11) Detailed Flair (Scale 1 . 20)		ii) Detailed Plan (Scale 1:20)	(06 Marks)
iii) Detailed Sectional Elevation (Scale 1:20) (07 Marks)			
iv) Railing Fixing Detail (scale 1:5). (04 Marks)			

OR

Draw a typical doglegged timber staircase with timber railing and landing. Width of the 8 staircase is 1200mm; floor to ceiling height is 3000mm. Label and dimension all its components in the following drawings:

Key Plan (Scale 1:50) (03 Marks) ii) Detailed Plan (Scale 1:20) (06 Marks) iii) Detailed Sectional Elevation (Scale 1:20) (06 Marks) iv) Fixing Detail of Railing to the stair (Scale 1:5). (05 Marks)

Module-5

- 9 Sketch and explain the following:
 - Fire escape staircase
 - Stringer stairs and folded type in steel stairs ii)
 - iii) Composite staircase
 - Stone stairs. (20 Marks)

Design a spiral staircase to span a height of 3m. Draw the following with labeling and 10 dimensions to the specified scale:

Key Plan (Scale 1:50) (03 Marks) ii) Detailed Plan (Scale 1:20) (06 Marks) iii) Detailed Elevation (Scale 1:20) (06 Marks) iv) Fixing detail of Railing and tread (Scale 1:

(05 Marks)