

CBCS SCHEME



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15ARC82

Eighth Semester B.Arch. Degree Examination, June/July 2023 Materials and Methods in Building Construction VIII

Time: 4 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Write short note on : i) Maivan ii) Doka (10 Marks)
b. Explain with sketches any two types of formwork in High rise buildings. (10 Marks)

OR

- 2 a. What is Cofferdam construction in Underwater construction? What are the different components of cofferdam construction? (10 Marks)
b. Write short notes on : i) Braced cofferdam ii) Cellular cofferdam. (10 Marks)

Module-2

- 3 a. Write short notes on : i) Cloud Collaboration ii) Simulation (10 Marks)
b. Explain different types of Architectural modeling. (10 Marks)

OR

- 4 a. What is 3D printing and application in Construction industry? (10 Marks)
b. Explain any four types of simulation and its advantages. (10 Marks)

Module-3

- 5 a. Write short notes on : i) Jacketing of columns ii) Steel jacketing of beams (10 Marks)
b. Explain any two special material used for structural repairs for a building. (10 Marks)

OR

- 6 Discuss any four types of tests conducted on the structural members. Explain with neat sketches. (20 Marks)

Module-4

- 7 What are Green buildings? Differentiate Green buildings with conventional building. (20 Marks)

OR

- 8 Write short notes on : i) LEED ii) GRIHA (20 Marks)

Module-5

- 9 a. Write short notes on : i) Smart materials ii) Nano materials. (10 Marks)
b. Explain any two Nano materials. (10 Marks)

OR

- 10 a. What is High performance materials? Explain its advantages and disadvantages. (10 Marks)
b. Explain any two Smart materials. (10 Marks)

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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.