

CBCS SCHEME



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15ARC82

Eighth Semester B.Arch. Degree Examination, Jan./Feb. 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 a short note on Automation in the Construction Industry. (10 Marks)
- b. What is Prefabrication? Explain the advantages and disadvantages of Prefabrication. (10 Marks)

OR

- 2 a. Write a short note on the different types of Formwork Systems. (10 Marks)
- b. What are the properties of Light Weight Concrete? What are the types of LWC? (10 Marks)

MODULE - 2

- 3 Write short notes on :
 - a. Big data. (10 Marks)
 - b. 3D printing. (10 Marks)

OR

- 4 Elaborate on the use of BIM in Construction Management. (20 Marks)

MODULE - 3

- 5 Write short notes on :
 - a. Life cycle of a building. (10 Marks)
 - b. Any five types of damage to Building. (10 Marks)

OR

- 6 With the help of a case study, explain how a building has been retrofitted. What were the criteria to retrofit that building? (20 Marks)

MODULE - 4

- 7 How do green buildings help surrounding Environment? Explain with a case study. (20 Marks)

OR

- 8 Explain methods of Harvesting and Conserving Energy to achieve a Net Zero Energy Building with the help of a case study. (20 Marks)

MODULE - 5

- 9 Elaborate the applications of any four Smart Material. (20 Marks)

OR

- 10 Explain any 4 Nano materials and their applications in the Building Industry. (20 Marks)

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.