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18ARC82

Eighth Semester B. Arch. Degree Examination, Dec:2024/Jan.2025 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 Write short notes on :
- a) Building Automation (05 Marks)
 - b) Modular Construction (05 Marks)
 - c) Under Water Construction (05 Marks)
 - d) Kinetic Construction (05 Marks)

OR

- 2 a. Explain in detail the form work in High rise buildings. (10 Marks)
- b. Describe in detail the enclosure system. (10 Marks)

Module-2

- 3 Explain the following :
- a) Information Management (05 Marks)
 - b) 3D Printing (05 Marks)
 - c) Simulation (05 Marks)
 - d) Cloud Collaboration (05 Marks)

OR

- 4 Write about any five construction equipments and its advantages and disadvantages. (20 Marks)

Module-3

- 5 Discuss in detail about life cycle of building. (20 Marks)

OR

- 6 Explain any five types of Damages and Repair to the buildings. (20 Marks)

Module-4

- 7 a. Discuss about the green building concept. (10 Marks)
- b. What are the Green building construction materials? List any five. (10 Marks)

OR

- 8 Explain in detail about zero energy building concepts. (20 Marks)

Module-5

- 9 Write any five smart materials and its application in building industry. (20 Marks)

OR

- 10 a. Explain in detail about Nano-Technology in building material. (20 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.