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Eighth Semester B.Arch. Degree Examination, June/July 2024
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 Explain in detail any 5 innovations in construction industry. (20 Marks)

OR

- 2 a. What do you understand by under water construction and kinetic construction? (10 Marks)
b. Explain the choice of material for formwork used in High Rise structures. (10 Marks)

Module-2

- 3 Explain the process involved in 3D printing of buildings. (20 Marks)

OR

- 4 Explain your understanding about Big Data and Cloud computing in construction industry. (20 Marks)

Module-3

- 5 a. What do you mean by retrofit of structures? When is seismic retrofit needed? (10 Marks)
b. What are the type of damages caused to a building? Explain the measures to rectify the damages. (10 Marks)

OR

- 6 a. What is the purpose of life cycle assessment of buildings? What are the aspects included in life cycle assessment? (10 Marks)
b. How is life cycle assessment done on a building? (10 Marks)

Module-4

- 7 What is your understanding of the concept of zero energy buildings? (20 Marks)

OR

- 8 Explain rating system of green building concepts. (20 Marks)

Module-5

- 9 What are smart materials? Explain their application in building industry. (20 Marks)

OR

- 10 What are Nano materials? Explain their application in building industry. (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.