



## Sixth Semester B.E./B.Tech. Degree Examination, June/July 2025 Alternative Building Materials

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- 1 a. Mention the different ways of carbon emission and its preventive measures. (06 Marks)
- b. Explain the different categories of energy consumption. (14 Marks)

**OR**

- 2 a. Compare framed and load bearing structures. (06 Marks)
- b. What are the alternate masonry construction techniques and explain with neat sketches. (14 Marks)

### Module-2

- 3 a. What are the elements of structural masonry. (04 Marks)
- b. Write short note on Fal – G – Bricks (16 Marks)

**OR**

- 4 a. Mention different types of mortars used for masonry with their characteristics. (08 Marks)
- b. Write the factor influencing the strength of wall and steps involved in design of walls. (12 Marks)

### Module-3

- 5 a. List the different types of Pozzolonas used with cement. (02 Marks)
- b. Explain the properties and requirements of mortar. (18 Marks)

**OR**

- 6 a. List the different types of fibre mixed in concretes. (04 Marks)
- b. Write short note on : Masonry Blocks with Industrial Wastes. (16 Marks)

### Module-4

- 7 a. Explain arches in foundation. (05 Marks)
- b. Write a note on Ferro concrete or Ferro cement concrete with cross sectional details. (15 Marks)

OR

- 8 a. Describe Mivan construction technique. (08 Marks)
- b. Explain different types of alternate roofing technique with suitable sketches. (12 Marks)

**Module-5**

- 9 a. Mention different machines for manufacture of concrete. (02 Marks)
- b. Explain methods of production and precast elements with neat sketches. (18 Marks)

OR

- 10 Explain different methods of cost analysis. (20 Marks)

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