

| Exam      | Model Question |            |          |
|-----------|----------------|------------|----------|
| Level     | BE             | Full Marks | 30       |
| Program   | BAR            | Pass Marks | 12       |
| Year/Part | III/I          | Time       | 1.5 hrs. |

**Subject:** Building Construction –III (ENAR 303)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt **All** questions.
- ✓ The figures in the margin indicate **Full Marks**
- ✓ Assume suitable data if necessary.

1. a) Explain universal beams and columns with neat sketches. [4] (unit 1)  
b) What are symmetrical pitch steel lattice truss constructions? Explain with sketches. List the advantages and disadvantages. [2.5+1.5] (unit 2)
2. Design a staircase for an available space of 6400X6400mm dedicated for a stairwell in a hotel. The height to encounter between floors is 3100. Proposed a suitable pre-cast element for the stair. Together with the plan and section of the staircase, provide finishing and baluster fixing in support of your design. [1.5+3+1.5] (unit 4)
3. What are the functions of a cladding? Explain how claddings are classified. [1+3] (unit 6)
4. a) Explain steel framed partition wall with neat sketches. List out the requirements of a curtain wall. [3+1] (unit 8)  
b) What are different types of false ceiling? [2] (unit 7)
5. Write short notes on: (Any Two) [2X3]
  - a) Construction joint and isolation joint (unit 5)
  - b) Cavity Wall (unit 8)
  - c) Types of self-centering floors (unit 3)