

**Name of the Examinations: BACHELOR OF ARCHITECTURE THIRD YEAR
FIRST SEMESTER - 2025**

Subject : ARCHITECTURAL CONSTRUCTION III

Time : 3 Hrs. Full Marks : 100

Please follow the instructions carefully:

- Answers should have neat drawings/ diagrams
- Construction details should be shown instead of mere inconspicuous/ obscured/ speculative/ non technical sketches
- Labelling of all parts/ elements must be done in drawing/ diagram
- To the point, bulleted answers with small paragraph against each bullet is preferred

Answer **any five** questions from the following:

20 x 5 = 100

1. Draw proper plan, elevation and section of a top hung sliding door with all its components for construction, for a door which is 2.5M wide and 2.1M high, separating a drawing room and balcony. The material of the door can be selected as per your choice but the construction details should be according to those materials with proper fittings and fixtures.

2. What are the benefits of a sliding door over a panel door? Why is it used. Specifically categorize each benefits and explain each with diagrams wherever possible. Show the construction drawing with details of a sliding folding door (plan, elevation, section).

3. A. What are the major components of a tensile structure? Explain each component for their details, forms, materials, design consideration etc.

B. Name some of the buildings/ architecture with tensile structure? Draw a tensile structure roofing for a hall with capacity of 100 people.

4. Draw the wall panelling details where on one side of the wall there is a quiet fine dining restaurant and on the other side there is a busy, noisy kitchen. Plan, elevation and section of the partition wall with the panelling have to be shown with necessary materials marking and details.

5. What is a pneumatic shelter? Describe the two major types of pneumatic shelter? Explain their construction methods and differences? In today's world how these structures are relevant, why are they used.

6. Design and draw the exposed grid false ceiling for an office 6M x 4M x 3.5M (height) with uniform evenly distributed lighting fixtures. RCP, section, sectional details and one point perspective is required.