

Enrolment No./Seat No _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Arch- SEMESTER-VI EXAMINATION – SUMMER 2025

Subject Code:2X65002

Date:08-05-2025

Subject Name: Building Construction - VI

Time:10:30 AM TO 01:30 PM

Total Marks:40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

- Q1. Write a short note on: (Any 2) 10**
- a) Tube in tube structure in high rise
 - b) Bundled Tube structure in high rise
 - c) shear wall core structure
 - d) Braced Frame structure
- Q2. Answer briefly: (Any 2) 10**
- a) What is high rise building? Explain history with advantages and disadvantages of high rise buildings.
 - b) Explain in detail different types of forces acting on high rise building.
 - c) Explain any one real example of high rise example: Burj Khalifa, Dubai.
- Q3. Write a short note on: (Any 2) 10**
- e) Explain HVAC system.
 - f) Fire safety in high rise building.
 - g) Explain vertical circulation service in high rise.
- Q4. Answer briefly: (Any 2) 10**
- a) What are curtain walls? And it's any three types.
 - b) What is bracing system? and discuss it's types
 - d) Explain composite floors with necessary sketches.
