

Enrolment No./Seat No _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.ARCH- SEMESTER-V EXAMINATION – WINTER 2024

Subject Code:2X55002

Date:20-11-2024

Subject Name: Building Construction Drawing-V

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 short notes on following with sketch. (Any two) **10**
- a) Deep foundations
 - b) Shallow foundations
 - c) Built up beam and columns
 - d) Retaining walls
- Q2.** Write a short note on: (Any two) **10**
- a) Explain bracing system and its types.
 - b) Explain any three types of slabs with sketches.
 - c) What is precast structure and sketch any two types of connections example: beam to slab, Beam to Column connections etc.
- Q3.** Answer briefly: (Any two) **10**
- a) Explain benefits of steel structure and precast structure in construction industry
 - b) What are pre-tensioned and post-tensioned precast elements?
 - c) Sketch any two types of connections in steel example: Column to Foundation, Beam to Column connections etc.
- Q4.** Write a short note on: (Any two) **10**
- a) Explain HVAC system
 - b) Introduction of vaults and it's any two types
 - c) Elevators and escalators
