

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Arch- SEMESTER– VI EXAMINATION – SUMMER 2023

Subject Code:2X65002

Date:23-06-2023

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.**

Q.1. Explain three different types of structural system for a 200-meter-high skyscraper with the help of neat sketches. **(10)**

Q.2. Explain a mass damper in a skyscraper through sketches. **(04)**

Q.3. Explain in brief; different types of wall cladding systems used in different types of high-rise structures with the help of neat sketches. **(06)**

Q.4. Explain through sketches, the effect of wind load on a sky-scraper and methods to tackle it.**(06)**

Q.5. What is a double-glazed unit (DGU)? State any two types of DGU. Discuss the advantages and disadvantages. **(06)**

OR

Q.5. What is a curtain wall? State any two types of curtain wall and their process of construction. Support your answer with proper sketches **(06)**

Q.6. Explain through sketches, the methods to manage HVAC services in a sky-scraper **(08)**
