

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Arch- SEMESTER- VI EXAMINATION – SUMMER 2023

Subject Code:2X65004

Date:30-06-2023

Subject Name: STRUCTURE - V

Time:10:30 AM TO 12:30 PM

Total Marks:50

Instructions:

1. Attempt the questions as per directed.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

| | | Marks |
|------------|--|-------|
| Q.1 | Answer the followings. (Any FIVE) | |
| (a) | List out the steps to be followed in the design of a cantilever retaining wall. | 07 |
| (b) | What is building layout? State the objectives of it in details. | 07 |
| (c) | State the essential requirements for preparation of building plans. | 07 |
| (d) | Write down the importance and use of IS:1893 (Part-1). | 07 |
| (e) | State the design criteria for the design of shallow foundation. | 07 |
| (f) | What is ductile detailing? State the various component of it as per IS:13920. | 07 |
| Q.2 | Answer the followings. (Any ONE) | |
| (a) | Explain seismic strengthening. State and explain the techniques for seismic strengthening. | 15 |
| (b) | List out any eight aspects to make earthquake proof building. | 15 |