

Enrolment No./Seat No \_\_\_\_\_

# GUJARAT TECHNOLOGICAL UNIVERSITY

B.Arch- SEMESTER-IV EXAMINATION – SUMMER 2025

**Subject Code:2X45102**

**Date:09-05-2025**

**Subject Name: Structure-IV**

**Time:10:30 AM TO 12:30 PM**

**Total Marks:50**

**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.

<b>Attempt any five:</b>		<b>Marks</b>
<b>Q.1</b>	In which conditions we can provide false ceiling? State the types of materials we can use for false ceiling and also state its advantages	<b>10</b>
<b>Q.2</b>	Design false ceiling for a room of size 3m X 5m. draw plan and section of any one side, showing all the details required in it	<b>10</b>
<b>Q.3</b>	State the advantages with explanation of steel structure in comparison of RCC.	<b>10</b>
<b>Q.4</b>	Give difference betweenwelding and riveting	<b>10</b>
<b>Q.5</b>	Draw a neat sketch of Roof Trusses, show its full details with different member	<b>10</b>
<b>Q.6</b>	What are the conditions for termites? State its treatments with explanation of all different types	<b>10</b>
<b>Q.7</b>	What are the materials we can use to cover the large span? Give detail explanation regarding the conditions in which we required these arrangements	<b>10</b>

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