

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY**  
**FACULTY OF ARCHITECTURE**  
**B.Arch Examination, May - 2017**

**Semester: 4**

**Date: 22/05/2017**

**Subject Code: 01101252**

**Time: 02:00pm to 05:00pm**

**Subject Name: Building Materials and Contraction Technology - IV**

**Total Marks: 50**

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**Instructions:**

1. Each section carries 25marks.
2. Q1 & Q2 are compulsory questions in each section.
3. Only one question has to be attempted out of Q3 and Q4.
4. Figures to the right indicate full marks.
5. Write section-A, section-B on separate answer sheets

**SECTION - A**

- Q.1** Assume an Architect's office of 3 meter width and 5 meter length, and design false ceiling for the same. Draw reflected ceiling plan, sections and details of the same in an appropriate scale with material specifications. **(10)**
- Q.2** (a) Explain with sketches: details of cavity wall for flat and inclined roofs. **(05)**  
(b) **Write a short note on. (any one)** **(05)**  
1) False ceiling and its objectives.  
2) Reinforced concrete.
- Q.3** Define the following terms: **(05)**  
1) Cavity walls, 2) Scaffolding, 3) Strut, 4) Partition wall,  
5) Precast concrete.
- Q.4** Enlist different types of partition wall with brief introduction of each. **(05)**

**SECTION - B**

- Q.1** Explain Formwork and its types in brief. **(10)**
- Q.2** (a) What is 'Elevator'? Classify elevators based on its purpose. **(05)**  
(b) **Write a short note on. (any one)** **(05)**  
1) Shuttering.  
2) Formwork for column.
- Q.3** Mention factors to be considered for designing and locating elevators in a building. **(05)**
- Q.4** Sketch ladder scaffolding and cantilevered scaffolding. **(05)**