



**RM-6071**

**B. Arch. I (Sem. II) Examination**  
**May / June – 2010**  
**Building Materials & Construction**  
**Technology - II (New Course)**

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

(1)

नीचे दशावलि निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<b>B. Arch. 1 (Sem. 2)</b>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<b>Building Materials &amp; Construction Tech. - 2 (New)</b>	<input type="text"/>
Subject Code No. : <input type="text"/> 6 <input type="text"/> 0 <input type="text"/> 7 <input type="text"/> 1	Section No. (1, 2,.....) : <input type="text"/> Nil
Student's Signature	

(2) Figures on the **right** indicate full marks.

(3) Support your answers with relevant sketches and dimensions.

**Q1) Fill in the blanks**

(10)

- \_\_\_\_\_ iron can be bent into shapes
- In a sliding aluminum window with 3 track and 3 sliding shutters you get a maximum of \_\_\_\_\_ % of opening
- (Rise in cm) + (Going in cm) = \_\_\_\_\_
- The substructure of building usually consists of \_\_\_\_\_ and \_\_\_\_\_.
- Glass has \_\_\_\_\_ crystal structure

**Q2) Write short notes on following (any two)**

(20)

- Glass as a building material
- Basic functions of a wall
- Spiral Staircase

**Q3) Explain with neat sketches (any two)**

(20)

- Bearing joints
- Pier & Arch Foundation
- Helical Staircase

**Q4) Sketch neatly and label**

(10)

- Standard brick
- Graphical symbol for brick wall and RCC in section
- Nosing
- Jamb
- Riser

**Q5) Answer the following questions (20)**

1. Explain with sketches any 5 different shapes of staircase with their appropriate use.
2. Timber joinery
3. Compare Isolated footing and Strip footing
4. Explaining rolling shutter with sketches

**Q6) Design and detail with dimensions and specifications (any one) (20)**

1. Timber louvered window and frame
  2. Dog leg stair for a floor height of 3.25 Mt. for a residence
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