



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)

<p>નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination :</p> <p>B. Arch. 1 (Sem. 2)</p> <p>Name of the Subject :</p> <p>Building Materials & Construction Tech. - 2 (New)</p> <p>Subject Code No. : 6 0 7 1 Section No. (1, 2,.....) : Nil</p>	<p>Seat No. :</p> <table border="1" style="width: 100%; height: 20px;"><tr><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td></tr></table> <div style="border: 1px solid black; border-radius: 15px; width: 100%; height: 80px; display: flex; align-items: center; justify-content: center; margin-top: 20px;">Student's Signature</div>						

- (2) Figures on the **right** indicate full marks.
(3) Support your answers with relevant sketches and dimensions.

Q1) Fill in the blanks **(10)**

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

Q2) Write short notes on following (any two) **(20)**

1. Glass as a building material
2. Basic functions of a wall
3. Spiral Staircase

Q3) Explain with neat sketches (any two) **(20)**

1. Bearing joints
2. Pier & Arch Foundation
3. Helical Staircase

Q4) Sketch neatly and label **(10)**

1. Standard brick
2. Graphical symbol for brick wall and RCC in section
3. Nosing
4. Jamb
5. Riser

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[Contd...

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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