

Printed Pages :2



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AR-602

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID :181602

Roll No.

B.Arch

**(SEM-VI) THEORY EXAMINATION, -15
CONSTRUCTION & MATERIALS**

Time : 3 Hours]

[Total Marks : 50

Note: (1) Attempt all questions.

(2) Assume any missing data

1. Describe various stages involved in the construction of pile foundation in water-logged area. Sketch the details of pile cap of a column for three piles group.

OR

Details of an expansion joint on the outer wall of basement which is 345 mm thick brick wall in a basement hall 4 m high and 2.4 m below ground level. 15

2. Design a Rolling shutter for an opening of a showroom having a dimension of 4.0 m x 3.0 m. Sketch all construction and manufacturing details on a suitable scale?

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(1)

[Contd...

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(2)

225

OR

Design a double layer steel scaffolding to plaster a faceds of four storied Residential Building. Provide all joinery details. 15

3. Write short notes on any two - 2×5=10
- a) Non-ferrous metals used in plumbing & sanitary services in building.
 - b) Uses of Polythene in Construction work.
 - c) Role of Ceramics in Architecture.
4. Explain the following with neat sketches - 2×5=10
- a) Grillage
 - b) P.V.C. doors
 - c) Cantilever footing.

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