

S.No. : 3

AR 602

No. of Printed Pages : 03

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

**PAPER ID : 0130**

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**B. Arch. Examination, 2021-22**

**(Even Semester)**

**CONSTRUCTION AND MATERIALS-VI**

**Time : 3 Hours]**

**[Maximum Marks : 50**

- Note :**
- (i) Attempt all questions.
  - (ii) Marks are indicated against each questions.
  - (iii) Assume any missing data.
  - (iv) Use appropriate scales.

1. Write short notes on any two of the following :

2×5=10

- (i) Use of copper and copper alloys in the building industry.
- (ii) Discuss the role of earthenware in building industry.

**[P. T. O.]**



- (iii) Differentiate the thermo setting plastics and thermoplastics.
2. Draw the plan, elevation, section and constructional details on any two of steel rolling shutter for an opening of 3000 mm width and 2400 mm in height.

$1 \times 15 = 15$

**OR**

What is the purpose of providing vertical DPC in the basement of a building? Also give plan, section and various constructional details for a basement hall of size 5m. x 8m. and its height 2.40m below the ground and 1.00m above the ground.

3. Draw constructional details on any three of the following :

$3 \times 5 = 15$

- (i) Timber shuttering for R.C.C. slab and beam.
- (ii) Expansion joints at lital level and slab level.
- (iii) A typical section of raft foundation.
- (iv) Describe the process of Mc-Arthur pedestal pile foundation.



4. Differentiate any two of the following :  $2 \times 5 = 10$

- (i) Single layer scaffolding and steel scaffolding.
- (ii) Centering and shuttering.
- (iii) Collapsible shutter and rolling shutter.

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