



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

PAPER ID :181502

Roll No.

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B.ARCH**(SEM-V) THEORY EXAMINATION, 2014-15****CONSTRUCTION & MATERIALS -V***Time : 3 Hours]**[Total Marks : 50**Note: Attempt all questions. Assume any missing data.*

1. Design a partially fixed mild steel glazed window in z-section. Window is 1750 mm wide & 1200 mm high with cill level of 900 mm from floor level. 20
 - (i) Draw front elevation showing fixed and openable glazed shutter. (Scale 1:20)
 - (ii) Detail of fixing vertical z section member with brick wall (Scale 1:1)
 - (iii) Detail of fixing hinged shutter with vertical member of frame of window (Scale 1:1)

OR

1. Design a mild steel structure for a industrial shed of 18 m × 36 m height of shed is 4.5 m. 20

- (i) Draw layout plan show arrangement of column & spanning member (1:100)
- (ii) Typical cross section (1:100)
- (iii) Isometric detail showing fixing of spanning member with vertical member

2. Attempt any two questions: 2×5=10
 - (i) Discuss the advantages in M.S. Structural work over R.C.C.
 - (ii) Gypsum board suspending ceiling showing fixing details.
 - (iii) Role of Aluminum in Building Industry.
3. Difference between any two: 2×5=10
 - (i) Floor spring & Hydraulic door closure.
 - (ii) Butt hinges & back flap hinges.
 - (iii) Venetian blinds & curtains.
4. Draw construction details for any two: 2×5=10
 - (i) Extension hinges in mild steel z section R.S.J. column
 - (ii) Grillage footing for an I-Section R.S.J. column
 - (iii) Door fixing in Gypsum board metal stud partition.

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