

Total No. of Pages : 01

Total No. of Questions : 07

B.Architecture (2012 & Onwards) (Sem.-5)
BUILDING CONSTRUCTION & MATERIALS-V
Subject Code : BACH-502
Paper ID : [A2902]

Time : 4 Hrs.

Max. Marks : 75

INSTRUCTION TO CANDIDATES :

1. Question no. 1 is compulsory.
2. Attempt any FOUR Question from Unit I & II with two Questions from each Unit.
3. Assume any missing data.
4. One mark is reserved for neat sketches wherever necessary.

Q1 Write short notes on the following :

- Uses of Cast Iron.
- Properties of copper as building material.
- Pressed Steel sections.
- Gusset plate.
- Angle cleats.

$$(2 \times 5)$$

UNIT I

- Q2 What are the characteristics of wrought iron? What are the various applications of stainless steel in building? (16)
- Q3 What are the various types of aluminum sections? Draw sketches of the various sections used for construction of an aluminum door. (16)
- Q4 Write short notes on following :
- a. Angle steel truss
 - b. Lattice girders and its use (8×2=16)

UNIT II

- Q5 Draw a north light roof steel truss for an industrial shed of size 30m x 10 m size. Draw plan, elevation, section & complete details including fixing of roof covering & north light glazing. (16)
- Q6 A sliding door in aluminum is to be provided for an opening of size 2 m in an industrial shed. Draw the construction details, plan, sectional elevation to explain the design. (16)
- Q7 Draw the construction details of a column beam junction if the column is a composite section & beam is I section. (16)