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B. Architecture (2012 & Onwards) (Sem.-5)
BUILDING CONSTRUCTION & MATERIALS-V

Subject Code : BACH-502

M.Code : 71746

Time : 4 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. Assume any missing data/dimension. Draw neat sketches where necessary
2. First question is compulsory.
3. Attempt 2 questions from each UNIT.
4. Each question of Unit I and Unit II is of 16 marks. One mark is reserved for neatness.
5. Choose suitable scale for details.

1.
 - a) Write down the instructions to be given to fabricator for the fabrication of steel door using steel sections. (2)
 - b) Draw neat sketches of hardware used in steel sliding doors. (2)
 - c) Explain properties of copper as building material. (2)
 - d) Explain briefly wrought iron as building material. (2)
 - e) Write short note on grillage foundation. (2)

UNIT-I

2. Explain in detail the properties & uses of aluminium and steel. (16)
3. Enlist various applications of copper, titanium and carbon fiber in detail. (16)
4. Write in detail various structural members, sections and joinery of aluminium and PVC. (16)

UNIT-II

5. Draw the plan, elevation and relevant details (three) of a north light truss. (16)
6. Design a straight flight steel staircase for a rise of 2.5m. Give all the relevant details to a suitable scale. (16)
7. Design and detail out a door using steel sections for an opening of size 1.5m×2.1m. (16)

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.