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Total No. of Pages : 02

Total No. of Questions : 07

B.Arch. (2012 & Onwards) (Sem.-2)
BUILDING CONSTRUCTION AND MATERIALS-II
Subject Code : BACH-202
M.Code : 45097

Time : 4 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. Attempt five questions in total, Question 1 is compulsory and attempt TWO questions from each unit.

1. Write short notes or explain through sketches the following :

- a) Thermal insulation at roof level
- b) Types of defects in Timber
- c) Waterproofing at roof level
- d) Jack Arch Roof
- e) RCC & RBC roof

UNIT-I

2. Timber continues to be used as an important material for doors and windows in construction. What are the appropriate types of timber used for doors and windows? Present an outline of their characteristics, cost and usage in buildings.
3. Explain the uses of wrought iron along with its composition and properties.
4. Discuss various types of waterproofing materials along with their specific use.

UNIT-II

5. Draw to suitable scale a complete section through 230 mm thick external wall of master bed room having window opening size of 1800×1650 mm with sill ht. 750mm. Building is situated in water logged area where water table is at 1200 mm from NGL. Floor to ceiling this 3.5mt and Assume the plinth level of your choice from NGL.

6.
 - a) Explain with the help of neat sketches the methods of damp proofing for the foundation, flooring, roofing & wall.
 - b) Write short notes on following with neat sketches :
 - a. Any three joints used in joinery.
 - b. Clerestory window
7.
 - a) Draw plan, elevation and sections of a Ledge, Battened & Braced door for an opening of $1\text{m} \times 2.1\text{m}$. Also draw any three details.
 - b) Draw plan, elevation and section of a window for an opening of $1.8\text{m} \times 1.2\text{m}$ with cill level at 0.90m , showing casement window & fixed glass.

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