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Total No. of Pages : 02

Total No. of Questions : 07

B. Architecture (Sem.-1)
BUILDING CONSTRUCTION & MATERIALS-I

Subject Code : AR-123

M.Code : 45003

Time : 4 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. Attempt TWO questions from EACH UNIT.
2. Assume the missing data if any.

UNIT-I

1. What are the constituents of cement? Explain its advantage &disadvantages as a building material. 10
2. What are the different types of stone generally used in a building? Explain any two of them in detail. 10
3. Write short notes on followings :
 - a) Mortar 5
 - b) Artificial stone 5

UNIT-II

4. Draw to a suitable scale, the plan and elevation of the consecutive courses of the Corner junction of the following types of brick wall 25
 - a) 2 brick thick wall in English bond.
 - b) 1½ brick thick wall in Flemish bond

5. a) Enlist the different types of brick arches used in building construction? Sketch any two types of arches and label its various parts. 15
- b) Draw the attached pier detail in brick on suitable scale. 10
6. a) What are the different types of Ashlar stone masonry used in building construction? Draw any two of them and label its various parts neatly. 15
- b) What are the different types of brick closers used in brick masonry? Sketch any two of them. 10
7. Write short notes on followings with neat sketches :
- a) Stone arches 8
- b) Brick jail 8
- c) Lintel 9

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.