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

Subject Code : UC/BARCH-105/19

M.Code : 77237

Time : 4 Hrs.

Max. Marks : 40

INSTRUCTIONS TO CANDIDATES :

1. Attempt FOUR questions in all selecting ONE from each unit.
2. All questions carry equal marks.
3. Use any suitable scale for your drawing work.

UNIT-I

1. Differentiate between the properties of lime mortar, cement mortar and mud mortar. Which is better?
2. Discuss the properties and uses of 1st class bricks.

UNIT-II

3. Draw to a suitable scale, the plans of the consecutive courses and elevation of the Corner junction of 1 brick thick wall in English bond.
4. Draw plans of consecutive courses and elevation of a cross junction between a 9" and 13½" brick wall in English bond.

UNIT-III

5. Draw scaled sketches of flat, segmental and semi-circular arches used in brick masonry.
6. Draw sectional details of threshold, sill and lintel provided in an outer 9" brick wall.

UNIT-IV

7. Draw complete details (plans, elevations and sections) of Ashlar masonry for a 450mm thick stone wall.
8. Sketch out scaled plans, elevations and sections of any three types of stone masonry.

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.