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B.Arch. (2019 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. All questions carry equal marks. Use any suitable scale for your drawing work.

UNIT-I

- 1. List any four types of cement. What are the constituents of cement? Explain its advantages over lime in building construction.
- 2. Compare the constituents, properties and uses of lime mortar and cement mortar.

UNIT-II

- 3. Draw to a suitable scale, plans of consecutive courses and elevation of cross junction of 1 brick thick and half-brick thick wall in English bond.
- 4. Draw plans of consecutive courses and elevation of a T-junction between a 9" and 13¹/₂" brick wall in English bond.

UNIT-III

- 5. Draw a vertical section through a 9" thick external brick wall in a single storey structure showing threshold, sill and lintel details.
- 6. Draft out on a suitable scale a flat, segmental and semi-circular arch in brick masonry.

UNIT-IV

- 7. Draw detail plan, elevation and section of Random rubble masonry (built to course) for a 450mm thick stone wall.
- 8. Sketch out scaled diagrams (plans, elevations and sections) of various types of stone masonry used in building works.

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.

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