

Total No. of Pages : 01

Total No. of Questions :07

B.Arch. (Sem.-1)
BUILDING CONSTRUCTION & MATERIALS-I
Subject Code : AR-123
Paper ID : [A0902]

Time :4 Hrs.

Max. Marks : 70

INSTRUCTION TO CANDIDATES :

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

UNIT-I

- Q1. What are the constituents of cement? Explain its advantage over lime in building construction. (12.5)
- Q2. What are the different types of surface finishes generally applied to wall? Explain any two of them in detail. (12.5)
- Q3. Enlist the different types of stone used in construction industry. Explain its advantages and disadvantages over Brick in building construction. (12.5)

UNIT-II

- Q4. a) What are the different types of brick arches used in building construction? Sketch a semicircular arch and label its various parts neatly. (15)
- b) Draw the coping detail in half brick parapet on suitable scale. (7.5)
- Q5. Draw to a suitable scale, the plan and elevation of the consecutive courses of the Corner junction of the following types of brick wall
- a) 1 brick wall in English bond.
- b) 1½ brick wall in Flemish bond. (22.5)
- Q6. a) What are the different types of stone masonry used in building construction? Draw any two of them and label its various parts neatly. (15)
- b) Enlist the different types of brick bats used in brick masonry. Sketch any two of them. (7.5)
- Q7. Write short notes on followings with neat sketches : (7.5×3=22.5)
- a) Brick jail
- b) Brick piers
- c) Lintel