

(3 Hours)

[ Total Marks : 100]

- N.B. :** (1) Questions No. 1 is **compulsory**.  
(2) Answer any Four questions-out of remaining  
(3) Answer any data. if required and state then clearly  
(4) Attempt sub questions in order  
(5) Illustrate answer with neat sketches wherever required  
(6) Figures to the right indicate full marks.

1. Compare following :- (any four)
  - (i) Damp Proofing and water proofing 20
  - (ii) Painting and Varnishing
  - (iii) Natural and Artificial seasoning
  - (iv) Brick Masonry and stone masonry
  - (v) Pointing and Plastering.
  
2. (a) Describe various factors affecting planning of an Auditorium. 10  
(b) Describe water Absorption and Crushing test on bricks stating then acceptance criteria. 10
  
3. (a) Draw the plain and sectional elevation of the Dog legged staircase for a residential building for a staircase half of 3mx5m, floor to floor height of 3.0m, Given that wall thickness = 230 mm and slab thickness = 150 mm. 10  
(b) Describe various defects in timber in detail with sketches. 10
  
4. (a) Explain procedure of Laying marbonite flooring of size 0.60x0.60m m a room of size 3 mx 5m of newly constructed R.C.C. floor 8  
(b) State Thumb Rules for proportioning Rise and tread dimensions. 4  
(c) Disuss various types of paints used in buildings stating then specific use. 8
  
5. (a) Compare load Bearing, Composite and framed structure 10  
(b) Write detailed note on paver block, 5  
(c) Write detailed note on Grades of cement. 5
  
6. (a) State various field tests on bricks and Cement 6  
(b) Sketch market forms of standard steel sections. 4  
(c) Sketch Cross section of Queen Post (wooden) roof truss with A.C. sheet roofing, stating the size of various Components. 10
  
7. Write short notes on any four 20
  - (a) Slip form
  - (b) National and Artified ventilators
  - (c) R.M.C
  - (d) Compare English bond and Flemish bond
  - (e) Types of Pointing
  - (f) Types of Glass used in buildings.