

20/5/15

(OLD COURSE)**Q.P. Code : 4517**

(3 Hours)

[Total Marks : 100]

- N. B. 1. Question no. 1 **compulsory**.
 2. Answer any four questions out of remaining
 3. Assume any data. If required and state then clearly
 4. Attempt sub questions in order
 5. Illustrate answer with neat sketches wherever required
 6. Figure to right indicate full marks.
1. Compare following :- (any four) 20
 (i) Damp Proofing and water proofing
 (ii) Painting and Varnishing
 (iii) Natural and Artificial seasoning
 (iv) Brick masonry and stone masonry
2. (a) Describe various factors affecting planning of an auditorium. 10
 (b) Describe water absorption and crushing test on bricks stating then the acceptance criteria. 10
3. (a) Draw the plan and sectional elevation of Dog legged staircase for a residential building for a staircase half of 3m X 5m, floor to floor height 3.0m, Given that wall thickness = 230 mm and slab thickness = 150. 10
 (b) Describe various defects in timber in detail with sketches. 10
4. (a) Explain procedure of laying marbonite flooring of size 0.60 X 0.60 m, a room of size 3m X 5m of newly constructed R. C. C. floor. 8
 (b) State thumb rules for proportioning, rise and tread dimensions. 4
 (c) Discuss various types of paints used I buildings stating then specific use. 8
5. (a) compare load bearing, Composite and framed structure 10
 (b) write a detail note on paver blocks. 5
 (c) write a detail note on grade of cement. 5
6. (a) Write short note plaster of Paris & its product 6
 (b) Explain types of staircase. 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 a short note on any four 20
 (a) Natural and artificial ventilators
 (b) R. M. C.
 (c) Compare English bond and Flemish bond
 (d) Type of pointing
 (e) Type of glass used in building.