15CV36

Max. Marks: 80

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.

List and explain the various requirements of a good brick.

(08 Marks)

(08 Marks)

Explain in detail, the various requirements of a good building stone.

(08 Marks)

Write a explanatory note on elongation and Flakiness index of coarse aggregate

(08 Marks)

Define shallow and deep foundations? Explain with neat sketches.

(08 Marks)

Explain with sketches, various types of joints in stone masonry.

(08 Marks)

(08 Marks)

(08 Marks)

- a. Draw a neat sketch of an arch and label various technical terms and explain. (08 Marks)
 - Sketch a king post roof truss with timber, provided with tile roofing. Name various components of the truss on the sketch. Indicate which members are subjected to tension and (08 Marks)
- Sketch an RCC lintel for window in brick masonry. Show arrangements of steel bars in it. (06 Marks)
 - Explain the functions of Chejja, Canopy and Balcony.

(06 Marks)

- Explain briefly with sketches:
 - Pitched roofs. (i)
 - (ii) Flat roofs.

(04 Marks)

Module-4

- 7 a. Write notes on the following:
 - (i) Revolving door
 - (ii) Louvered window.

(iii) Clear storey window.

(06 Marks)

- b. Explain the following terms with the help of sketch of a stair:
 - (i) Landing
 - (ii) Going
 - (iii) Newel post.
 - (iv) Nosing.
 - (v) Stringer
 - (vi) Handrail

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(10 Marks)

OR

8 a. Write a neat labled sketch of half paneled and half glazed door.

(08 Marks)

b. Stair hall of a public building is 6 m long and 5.1 m wide in plan. Vertical distance from flooring of ground floor to top level of flooring of first floor is 4.5 m. Design a staircase with three flights. Sketch the staircase in plan and show details. (08 Marks)

Module-5

- 9 a. Describe the procedure for application of point on wooden surface and on newly cement plastered surface. (08 Marks)
 - b. Discuss the cause and effect of dampness in a building.

(08 Marks)

OR

10 a. Discuss and explain the defects in plastering?

(06 Marks)

b. Describe the types of paint available in market and their specific usage?

(06 Marks)

c. Mention the methods of Damp proofing.

(04 Marks)