Dec-22-0151

CE-404 (Building Planning and Construction)

B.Tech-4th (CBCS)

Time : 3 Hours   Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note: Candidates are required to attempt five questions in all selecting one question from each of the sections A, B, C & D of the question paper and all the sub-parts of the question in section E.

SECTION-A

1. Name various components of a building and briefly state the specific functions of each of these components.   (10)

OR

2. What is the importance of 'orientation and wind directions' in designing the layout of a building?   (10)

SECTION-B

3. Draw plans of two alternate courses and a front view of 2 brick thick wall in Double Flemish Bond.   (10)

OR

4. What is the object of preliminary dressing of stone at quarry site? Sketch any four common tools used in the dressing of stones.   (10)

SECTION-C

5. Draw an elevation and two sectional (along height and width) views of battened and ledged doors in buildings.   (10)

OR

6. What are the causes of dampness in buildings? State ill effects of dampness in a building. Explain roof treatment given against dampness.   (10)

SECTION-D

7. What are the basic factors to keep in mind while selecting the layout for water supply and plumbing for residential buildings?   (10)

8. Discuss the principles of building planning in respect of residential buildings.   (10)

SECTION-E

9. Answer the following:

   (i) What are the factors affecting in deciding the location of a door in buildings?

   (ii) Draw sketch of Lean-to-roof.

   (iii) What are different components of a building?

   (iv) Define sill level with suitable sketch.

   (v) What is the difference between sub-floor and floor covering?

   (vi) Define Reveals.

   (vii) Why the D.P.C. is not provided within door and verandah openings?

   (viii) Differentiate between string course and cornice.

   (ix) Why the bricks should be laid with their frog upward?

   (x) What is the primary object of a building?

                                              (10×2=20)