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May-24-0397

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CE-404

CE-404 (Building Planning and Construction)

UNIT - V (Compulsory)

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 : Attempt five questions in all, selecting at least one question each from unit I, II, III, IV. Unit V is compulsory

UNIT - I

1. Discuss various essential components of a building. (10)
2. Please explain, in detail, the Orientation of a building and its different elements. (10)

UNIT - II

3. Discuss the advantages, limitations and challenges of stone masonry. (10)
4. Describe any two types of floor used in India. (10)

UNIT - III

5. Draw an elevation and two sectional (along height and width) views of a Battened door. (10)
6. Discuss fire-resisting properties of common building materials. (10)

UNIT - IV

7. Briefly discuss the water supply and plumbing layout for a residential building. (10)
8. Discuss a typical electrical layout diagram of a building. (10)

9. (a) Discuss various by-laws while planning a building.
- (b) What do you understand by brick masonry?
- (c) Sketch and label the main parts of a door.
- (d) Explain the causes of dampness in a building.
- (e) Write a short note on fire hazards.
- (f) Discuss the importance of Wind direction in designing the building layout.
- (g) Sketch any two factors used in selecting the layout for the water supply.
- (h) Sketch a Flemish bond.
- (i) Discuss roof covering.
- (j) Sketch a roof. (10×2=20)