

- (h) Explain Bay window with sketch.
- (i) What do you understand by granolithic floor finish ?
- (j) What are different components of a water supply network ? 2×10=20

Roll No. ....

Total Pages : 04

**July-22-00252**

**B. Tech. EXAMINATION, 2022**

Semester IV (CBCS)

BUILDING PLANNING AND CONSTRUCTION

CE-404

*Time : 3 Hours*

*Maximum 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 *one* question from each Sections A, B, C and D. Q. No. 9 is compulsory.

**Section A**

1. (a) Discuss various factors you will consider while selecting the site for a building. 5
- (b) Why do we need bye-laws and regulation in building planning ? 5

(2-18/1) W-July-22-00252

P.T.O.

2. What is meant by orientation of a building ? What factors would you consider while deciding upon the orientation of a building ? 10

### Section B

3. What is the significance of a 'closer' in a brickwork ? Give isometric sketches of the following closers and explain under which circumstances each is used in brickwork :
- (i) King Closer 5
- (ii) Queen Closer. 5
4. Classify the different types of floors that are normally used in modern buildings, discussing merits and demerits of each type. 10

### Section C

5. Draw a neat sketch of ledged, battened and braced door. Give names of all the components members and indicates the same on the sketch giving sizes of the timber sections used. 10
6. What is Dampness ? What are its ill effects ? Explain with sketches how damp-proofing is done in buildings. 10

### Section D

7. Describe, with the help of a neat sketch, the method of taking a house connection for water supply. 10
8. Draw typical electrical layout diagram for a residential building. 10

### (Compulsory Question)

9. Answer the following :
- (a) Why is ventilation of a building essential ?
- (b) How does nominal size differ from standard size of a modular brick ?
- (c) What is a through stone and why is it provided in stone masonry ?
- (d) Why are the stones always laid on their natural bed ?
- (e) What is the role of drainability of soil in causing dampness in a building ?
- (f) Which cement concrete/mortar is used for laying horizontal D.P.C./Vertical D.P.C. ?
- (g) Give the common sizes of doors and their uses in residential buildings.