

MAR-21-210048

B. Tech. EXAMINATION, March 2021

Semester IV (CBCS)

BUILDING PLANNING AND CONSTRUCTION

CE-404

Time : 2 Hours

Maximum Marks : 60

The candidates shall limit their answers precisely within 20 pages only (A4 size sheets/assignment sheets), no extra sheet allowed. The candidates should write only on one side of the page and the back side of the page should remain blank. Only blue ball pen is admissible.

Note : Attempt *Four* questions in all, selecting *one* question from each Sections A, B, C and D. All questions carry equal marks.

Section A

1. Briefly explain the importance of orientation of a building. **15**
2. Explain the various stages of planning of a building. **15**

Section B

3. Explain with sketches, the difference between English bond and Flemish bond with regarding to brick masonry. 15
4. Write the various differences between stone masonry and brick masonry. 15

Section C

5. What are the functions of a ventilator ? How is a ventilator different from a window ? 15
6. Explain various methods of damp proofing. 15

Section D

7. Explain the various principles that should be kept in mind while designing a house drainage system. 15
8. Name and explain various materials used for service pipes. 15
9. (a) Write down the advantages of planning. 4
(b) Draw the plan and elevation of one and half brick thick English bond. 4

- (c) State the difference between sliding door and collapsible door. 4
- (d) Write a short note on sanitary fittings. 3