

Sep-21-00048

B. Tech. EXAMINATION, 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 any of the Sections A, B, C and D.
Q. No. 9 is compulsory.

Section A

1. Explain various components of a building. Discuss principle of planning. 15

2. How the selection of site is done for building construction ? Give brief description of municipality byelaws. 15

Section B

3. Explain different bonds used for brick masonry. Draw the construction of Terrazzo flooring. 15
4. What are the various factors which you will consider before selection of a flooring material ? 15

Section C

5. Explain the various types of doors and windows used in building construction. 15
6. Enlist several causes and effects of dampness on buildings. Describe the constructional procedure of thermal insulation. 15

Section D

7. Draw the layout of external services electrical cabling for residential building and explain its various parts. 15

8. Describe the following :
- (a) Water supply and plumbing layout for a residential building 7.5
 - (b) Elevators and escalators. 7.5

(Compulsory Question)

9. Short answer type questions : 3×5=15
- (a) What is the use of refractory block ?
 - (b) Define superstructure and substructure. Discuss the components of superstructure and substructure.
 - (c) What is the role of composite masonry ?
 - (d) Write a short note on Fire resistant construction.
 - (e) Describe the general methods of thermal insulation.