

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]

Dec.-23-0397

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 : Attempt five questions in all, selecting one question each from section A, B, C and D. Section E is compulsory.

SECTION - A

1. (a) What are the factors which affect site selection of a building? (5)
- (b) Discuss the requirements of building components: Study room, living room, and water closets. (5)
2. What are the three basic zones for the purposes of building orientation and what are the problems posed by them? (10)

SECTION - B

3. (a) What are various factors considered and the types of flooring used in the upper floor construction? (5)
- (b) What is asbestos cement? What are the disadvantages of asbestos roof covering? (5)
4. Draw plans of two alternate courses and a front view of 1½ brick thick wall in Double Flemish Bond. (10)

SECTION - C

5. (a) Give different grading of buildings according to its fire resistance. (5)

2

CE-404

- (b) Write a short note on dampness due to structural causes. (5)
6. Draw an elevation and two sectional (along height and width) views of a battened and ledged door. (10)

SECTION - D

7. (a) What are the factors to be kept in view while deciding the layout for water supply in residential buildings? (5)
- (b) Draw a typical electrical layout for a building. (5)
8. Discuss various factors affecting the selection of a layout for sewage disposal in buildings. (10)

SECTION - E (Compulsory)

9. i. Describe thermal insulation by using cavities.
- ii. Explain fire properties of bricks and stones.
- iii. What are the factors affecting in deciding the location of a door?
- iv. Explain the characteristics of Ashlar stone masonry.
- v. How selection of roof covering material is done?
- vi. What do you mean by terrazzo floor?
- vii. List down different materials used in damp proofing of buildings.
- viii. Why bricks are laid with their frogs upward in brick masonry?
- ix. Explain movements of a swing door.
- x. How location of escalators is decided? (10×2=20)