



Term End Examination 2024-2025
Programme – Dip.CE-2022/Dip.CE-2023
Course Name – Building Planning and Drawing
Course Code - DCEPC403
(Semester IV)

Library
Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

Full Marks : 30

Time : 1:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

$$1 \times 5 = 5$$

1. Choose the correct alternative from the following :

- (i) Select the correct answer for the blank :The purpose of visible lines in technical drawings are_____.
- a) Indicating hidden features b) Drawing attention to important points
c) Representing features directly visible d) Random decoration
- (ii) Select the correct answer for the blank :Dimensions usually written _____.
- a) In words b) In Roman numerals
c) In Arabic numerals and unit symbols d) In random patterns
- (iii) Select the correct answer for the blank : _____ is the purpose of the area statement in the data drawing.
- a) Provide details about the roof design b) Show window schedule
c) Indicate plumbing layout d) Specify the sizes of rooms and spaces
- (iv) Select the correct answer for the blank : _____ aspect of the staircase is covered in the planning and design of staircase drawing.
- a) Window sizes b) Rise and tread details
c) Plumbing layout d) Roof truss specifications
- (v) Choose the correct answer for the blank : _____ does a construction note in a framed structure drawing typically include.
- a) Site Plan Details b) Structural Analysis
c) Material Specifications and Techniques d) Electrical Wiring Layout

Group-B

(Short Answer Type Questions)

$$3 \times 5 = 15$$

2. Define IS 962 and explain its significance in architectural drawings. (3)
3. Explain the terms Plot area, Coverage Index, and Floor Area Ratio (FAR)/Floor Space Index (FSI). (3)

4. Explain the key differences between designing a staircase for a residential building versus a public building. (3)
5. Explain the importance of Prospect in the design of residential and public buildings. (3)
6. Explain the primary differences between the design of columns and beams in a framed structure. (3)

OR

Explain the purpose and construction process of elements such as chajjas and lintels in a framed structure. (3)

Group-C

(Long Answer Type Questions)

5 x 2=10

7. Describe the symbols used in architectural drawings for earthwork, brickwork, stonework, concrete, woodwork, and glass according to IS 962. (5)
8. Explain the concept of Economy in building planning. (5)

OR

Explain the terms: Plot area, Coverage Index, built-up area, super built-up area, plinth area, carpet area, floor area, and FAR (Floor Area Ratio)/Floor Space Index. (5)

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