



# BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – Dip.CE-2022

Course Name – Building Planning and Drawing

Course Code - DCEPC403

( Semester IV )

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 x 5=5

1. Choose the correct alternative from the following :

(i) Select the correct answer for the blank :The size of various standard papers and sheets refers to in drawing conventions as \_\_\_\_\_.

a) The thickness of the paper

b) The physical dimensions of paper used for drawings

c) Random sizes

d) The color of the paper

(ii) Select the correct answer for the blank : The primary function of a dimension line is \_\_\_\_\_.

a) Drawing attention

b) Indicating the center

c) Showing the direction of measurement

d) Random decoration

(iii) Select the correct answer for the blank : \_\_\_\_\_ is the primary purpose of the site plan in the drawing.

a) Show window schedule

b) Indicate plumbing layout

c) Illustrate the building location on the site

d) Provide details about the roof design

(iv) Select the correct answer for the blank : \_\_\_\_\_ part of the drawing focuses on the location of structural elements on the site.

a) Elevation drawing

b) Site plan

c) Section drawing

d) Developed plan

(v) Choose the correct answer for the blank : \_\_\_\_\_ of the following is NOT part of the working drawing for a framed structure.

a) Developed Plan

b) Elevation

c) Furniture Layout

d) Section

## Group-B

(Short Answer Type Questions)

3 x 5=15

2. Discuss the importance of considering furniture requirements during the planning phase of buildings. (3)
3. Define IS 962 and explain its significance in architectural drawings. (3)
4. Explain the terms Plot area, Coverage Index, and Floor Area Ratio (FAR)/Floor Space Index (FSI). (3)
5. Discuss the significance of Line plans in the context of residential building design. (3)
6. Explain the concept of load-bearing structure in the context of residential building design. (3)

**OR**

Describe the process of developing a foundation plan for a load-bearing structure. (3)

**Group-C**

(Long Answer Type Questions)

5 x 2=10

7. Differentiate between various types of lines used in architectural drawings, such as visible lines, center lines, hidden lines, section lines, dimension lines, extension lines, pointers, and arrowheads or dots. (5)
8. Explain the concept of Flexibility in building design. (5)

**OR**

Explain the role of Circulation in building planning. (5)

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