



C20-AA-406

7412

**BOARD DIPLOMA EXAMINATION, (C-20)
OCTOBER/NOVEMBER—2023
DAA – FOURTH SEMESTER EXAMINATION
ARCHITECTURAL DESIGN—II**

Time : 9 Hours]

[Total Marks : 60

PART—A

5×4=20

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **five** marks.
(3) The main answer book should be collected at the end of three hours.

1. Define the term orientation and its role in architectural design.
2. State any five functional requirements needed for a neighbourhood recreational club.
3. Write the cross ventilation aspects followed in a higher secondary school.
4. List out any four vertical circulation spaces needed for a hospital.

- Instructions :**
- (1) Candidates should not be allowed to take any drawings out of the hall after first day's work.
 - (2) Tracing copy of the plan is to be collected at the end of 1st day and it should be returned at the end of examination to enclose to the main answer papers.
 - (3) The hall should be locked and sealed during interval time.

Primary Health Centre

Design a Primary health centre with the following data :

Site details :

- (a) Size of site : 50.0 m × 80.0 m
- (b) Road : 40.0 m wide road on shorter side on East side

Functional requirements :

- | | | |
|--|---|---|
| (a) Entrance cum waiting hall | : | 7.50 m × 4.50 m |
| (b) Two consulting rooms with attached toilet - 2 Nos. | : | 6.0 m × 3.0 m Each excluding toilet area |
| (c) Treatment room | : | 3.5 m × 3.5 m |
| (d) Operation theatre | : | 6.0 m × 6.0 m |
| (e) Laboratory | : | 3.5 m × 3.5 m |
| (f) Ward | : | 9.0 m × 6.0 m |
| (g) Store room | : | 3.5 m × 3.5 m |
| (h) Separate toilets for Gents, Ladies and Staircase | : | Assume area |

Drawings required :

- | | |
|--|----|
| (i) Plan : 1 : 100 Scale | 20 |
| (ii) Front elevation : 1 : 100 Scale | 5 |
| (iii) Longitudinal section : 1 : 100 Scale | 5 |
| (iv) Site plan : 1 : 200 Scale | 5 |
| (v) First day's tracing copy of the plan | 5 |

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