



**C20-AA-306**

**7212**

**BOARD DIPLOMA EXAMINATION, (C-20)**

**OCTOBER/NOVEMBER—2023**

**DAA – THIRD SEMESTER EXAMINATION**

**ARCHITECTURAL DESIGN—I**

*Time : 9 Hours ]*

*[ Total Marks : 60*

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**PART—A**

5×4=20

**Instructions :** (1) Answer **all** questions.

(2) Each question carries **five** marks.

1. Explain the role of flow chart in designing residential buildings.
2. Name the sanitary fixtures in residential buildings.
3. Write the orientation aspects followed for a duplex building.
4. Explain the cross ventilation aspects followed in the Architect's office building.

- Instructions :** (1) The answer script of Part—A and tracing copy of the plan is to be collected at the end of 3 hours and 6 hours and they should be returned at the end of the examination to enclose to the main answer paper.
- (2) The hall should be locked and sealed during interval time.
- (3) Candidate should not be allowed to take any drawings out of the hall after first day's work.

5. A businessman wants to construct a two-bed roomed residence in Kakinada in a site measuring 25.00 mt × 30.00 mt site. The shorter side of the site is abutting to 12.00 mt wide road which is facing east. Design it with the following functional requirements :

**Functional requirements**

(a) Drawing room	4.50mt × 4.50 mt
(b) Living /Dining	4.50 mt × 8.00 mt
(c) Master bedroom	4.00 mt × 4.50 mt
(d) Attached toilet	1.50 mt × 2.00 mt
(e) Children bedroom	3.50 mt × 4.00 mt
(f) Common toilet	1.50 mt × 2.00 mt
(g) Kitchen	2.50 mt × 3.00 mt

Provision of sit outs and wash areas-width of stairs is 1.20 mt. Provide a staircase outside.

**Drawings Required**

(i) Plan	1 : 100	20
(ii) Front elevation:	1 : 100	5
(iii) Section	1 : 100	5
(iv) Site plan	1 : 300	5
(v) First day's tracing copy		5

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