**C-14-AA-306**

BOARD DIPLOMA EXAMINATION (C-14)

D.A.A - III SEMESTER EXAMINATION

ARCHITECTURAL DESIGN-I

Time 9 hours Max marks: 60

PART A Marks: 4X5=20

*Note*

1. *A separate small drawing sheet is to be provided to answer Part A.*
2. *Big size drawing sheets, as many as required by the student, may be give to answer Part B*
3. *Part A is to be collected at the end of the first session.*
4. *The tracing of the plan is to be collected at the end of the second session.*
5. *Candidate should be present in the first session. If he fails to be present in first session, it will be treated as absent.*
6. *Answer all the questions in*

*Part A*

1. Define ‘cross ventilation’. Explain with neat sketches how the position of openings effects the cross ventilation in a building.
2. List the different types of horizontal and vertical circulation areas in a building
3. List the functional requirements of an Architect Office
4. List the functional requirements of a restaurant.

PART B Marks: 40

1. Design of a Duplex Residence:

A doctor would like to construct a duplex residence in a flat rectangular plot of dimensions 30mx40m. The site has a 12m wide road on the shorter side of the site which is also the North of the site. Design the building with consideration for orientation and circulation patterns.

Functional requirements:

Ground floor:

* 1. Portico for one car 3.0mx4.0m
  2. Entry lobby: 2.0mx2.5m
  3. Living cum Dining hall 3.5mx3.5m
  4. Guest Bedroom 3.0mx4.0m
  5. Kitchen 3.0mx3.0m
  6. Common toilet 1.5mx2.1m
  7. Internal staircase of adequate size, sit outs, verandahs etc are to be provided according to the design.

First Floor:

1. Master bedroom 3.0mx4.0m
2. Children’s bedroom 3.0mx3.5m
3. Attached toilets for both the bed rooms 1.5mx2.1m
4. Family space 3.5mx3.5m
5. Additional facilities such as study room, gym or home theatre can be provided as per your design.

Drawing requirements:

1. Tracing of the plan 1:50 5marks
2. Ground floor plan 1:50 10 marks
3. First floor plan 1:50 10 marks
4. Front elevation 1:50 5marks
5. Section 1:50 5marks
6. Site plan 1:100 5marks