

**704****October 2023**

***Time - Three hours***  
***(Maximum Marks: 100)***

- (N.B.*** 1. Answer all questions under Part-A and Part-B in the drawing sheet supplied.
2. Q.No. 1 & 2 each carries 4 marks, Q.No 3 carries 12 marks and Q.No. 4 carries 80 marks.
3. Sketches under Part-A shall be drawn using pencil and drawing instruments not necessarily to scale.
4. Any data not given may be assumed suitably and shall be indicated in the drawing.
5. All dimensions indicated are in "mm".]

**PART - A**

1. Sketch the symbol for (i) Revolving door (ii) Water meter (iii) Fire extinguisher and (iv) Earthing
2. Write short notes on Landscape Architecture.
3. Sketch the elevation of a "partly glazed and partly paneled window" to the following details.

Window size	- 1200 x 1300
Number of shutters	- 4
Window frame	- 50 x 75
Vertical mullion	- 50 x 75
Shutter frame	- 75 x 40
Panel	- 25mm thick
Glass panel	- 5mm thick

[Turn Over...

**PART - B**

4. Sketch P shows the line plan of a house with single bed room with RCC flat roof. The dimensions indicated are clear dimensions between the walls. The specifications are given below.

**1. Foundation:**

The foundation for all main walls and verandah retaining walls will be in cement concrete 1:4:8 mix, 1000 mm wide and 200 mm thick laid at 1100 mm below ground level. The masonry footing will be in cement mortar 1:6, the first footing being 700 mm × 400 mm and the second being 400 mm × 500 mm for all walls and verandah retaining walls.

**2. Basement:**

Basement shall be in brickwork in CM 1:6, 300 mm wide and 600 mm height above GL. Suitable DPC may be provided.

**3. Flooring:**

Flooring shall be of a base concrete of 1:4:8, 130 mm thick and finished with CM 1:3, 20 mm thick. Basement filling will be river sand of 450 mm thick.

**4. Superstructure:**

Superstructure shall be of BW in CM 1:5, 230 mm thick wall and is 3000 mm high above floor level except verandah. Verandah roofing is supported by 230 mm × 400 mm brick pillars of height 2000 mm. Parapet walls of 230 mm thick and 600 mm high will be provided all round.

**5. Roofing:**

The roofing will be of RCC 1:1.5:3 mix, 125 mm thick flat slab over the room. A weathering course 75 mm thick in brick jelly lime concrete 1:5:10 mix will be provided.

**6. Doors, windows and ventilators:**

D1 - Panelled door	- 1100 mm × 2100 mm
D2 - Panelled door	- 900 mm × 2100 mm
W1 - Glazed window	- 1200 mm × 1200 mm
W2 - Glazed window	- 1500 mm × 1200 mm
V1 - Ventilator glazed	- 900 mm × 450 mm
V2 - Ventilator glazed	- 1500 mm × 450 mm
J - R.C. Jolly	- 2400 mm × 1200 mm

**7. Steps:**

Steps will be in brick work in CM 1:5 laid on 800 mm × 150 mm thick cement concrete 1:4:8 footing. Rise 150 mm, tread 300 mm.

**Note:**

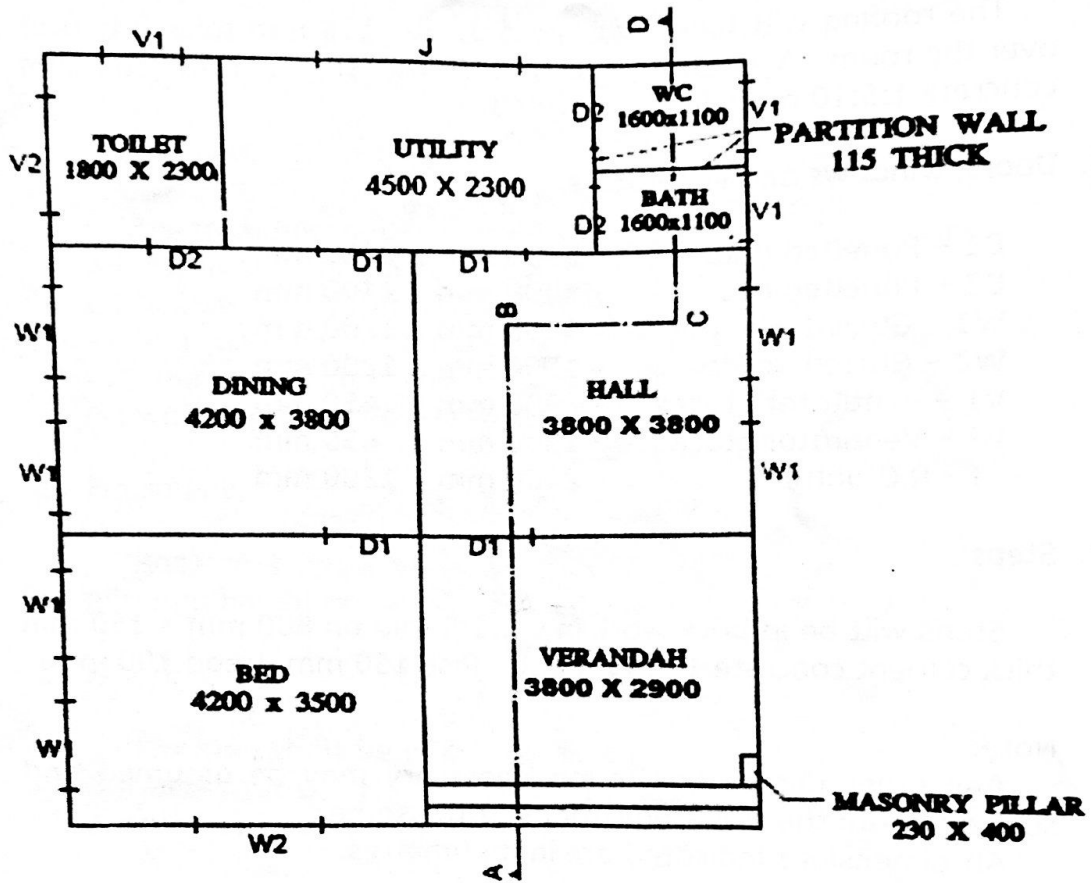
Any other dimensions found necessary may be assumed and suitably mark the clear indications of the same.

All dimensions indicated are in millimetres.

Draw the following views with suitable scale with complete detail and dimensions.

- (i) Plan at window sill level - 35 marks
- (ii) Section on ABCD - 25 marks
- (iii) Front elevation - 20 marks

(Sketch 'P' to accompany)



LINE PLAN