C16-**C-306**

6227

BOARD DIPLOMA EXAMINATIONS

SEPTEMBER/OCTOBER - 2020

DCE– THIRD SEMESTER

CIVIL ENGINEERING DRAWING-I

Time: 3 hours Max. Marks: 60

PART – A **4 X 5 = 20**

Instructions: *1. Answer **all** questions.*
2. Part – A need not be drawn to a scale.
3. Any missing data may be assumed suitably..

1. Draw at the site plan of a residential building as per local bye-laws to plot of size 12 m x 18 m.
2. Draw the cross section of a load bearing wall and label the parts.
3. Draw the elevation of fully paneled door and label the parts.
4. Draw the sectional elevation of lift shaft for multi-stored building.
5. Draw the foundation plan of a single room 3.25 m x 4.75 m having wall thickness 380 mm and width of foundation 1100 mm.

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PART – B **25 + 15 = 50**

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

2. *Any missing data may be assumed suitably..*

6. Draw the following items to a scale of 1:50 for Fig.1

a) Fully Dimensioned Plan **15 m**

b) Section along A-A. **10 m**

Specifications:

(i) Foundation:

a) Overall depth of foundation= 1000 mm

b) C.C. Bed (1:3:6) : 1000 mm x 300 mm

c) First Footing : R.R Masonry in CM (1: 6) : 1000 mm x 300 mm

d) Second Footing : R.R Masonry in CM(1: 6) : 1000 mm x 300 mm

(ii) Basement : R.R Masonry in CM(1: 6) : 450 mm x 600 mm

(iii) Super structure: Brick masonry CM(1: 6) : 300 mm thick and Height 3000 mm.

(iv) Roof: R.C.C. (1:1.5:3) 120 mm thick.

(V) Lintels: On all wall openings 300 mm x 250 mm

(vi) Sunshades: On all external openings, projected lengths 700 mm. And 50mm uniform thickness.

(vii) Parapet wall: Brick masonry in CM (1:6) of 100 mm thick and 900mm height.

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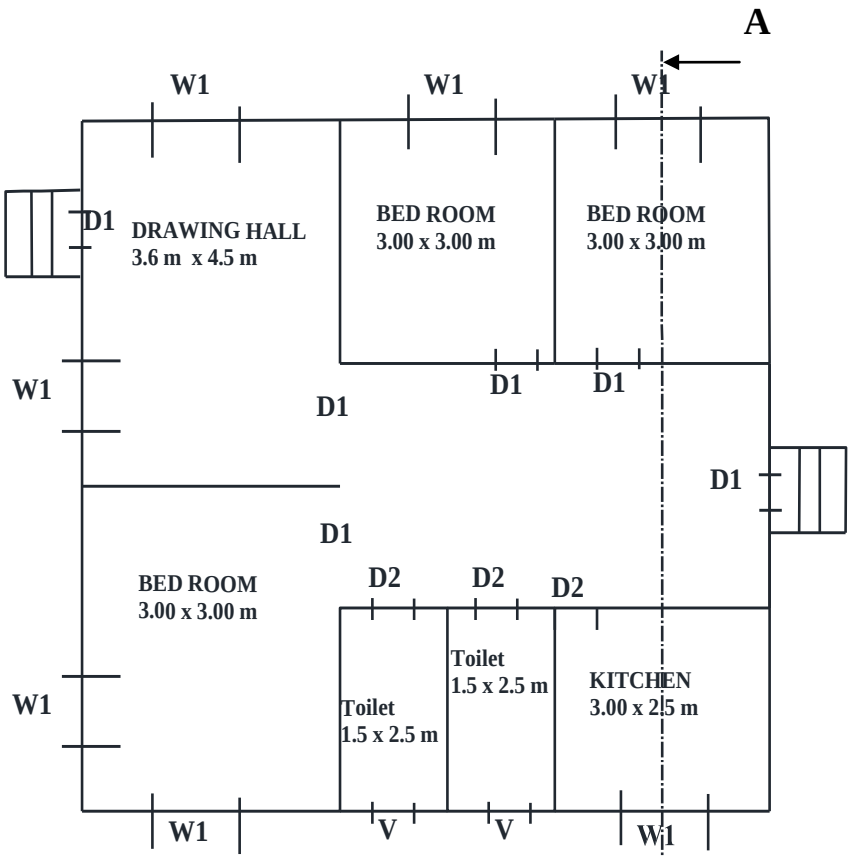
(viii) (a) Doors: D1 : 1000 x 2000 mm ; D2 : 800 x 2000 mm

(b) Windows: W1: 1200 mm x 1200 mm; W2: 1000x 1200 mm

(c) Ventilators: V: 600 mm x 450 mm.

(ix) Flooring: C.C (1:2:4) 40 mm thick over C.C. (1:4:8) OF 100 mm Thick.

(x) Steps: Rise : 150 mm, Tread: 300 mm.



7. Draw the line diagram of a Apartment Plan of the Floor with 6 Units each @ 90 to 120 sq.m. **15 m**