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3223

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL-2019

DCE – THIRD SEMESTER EXAMINATION

CIVIL ENGINEERING DRAWING-I

Time: 3Hours]

[Max.Marks: 60

PART-A

5x4=20M

Instructions: 1) Answer all the questions and each question carries four marks.

2) Part-A, need not be drawn to scale.

3) Any missing data may be assumed suitably.

- 1) Draw the conventional signs for the following
 - (a) Plaster
 - (b) Sheet metal
 - (c) European water closet
 - (d) Ceiling fan
- 2) Draw the elevation of fully glazed window and label parts.
- 3) Draw neat sketches of any two type of stair cases.
- 4) Draw the layout plan of water supply arrangement for a residential building.
- 5) Draw a sectional elevation of lift shaft showing top most floor and machine room along with lift car.

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PART-B

2x20=40M

Instructions: * 1) Answer all questions.
2) The drawing must be drawn to scale
3) Any missing data may be assumed suitably.

6) A line sketch showing the arrangement of a building is given below. (20M)

- (a) Dimensioned plan.
- (b) Cross-section along AA.

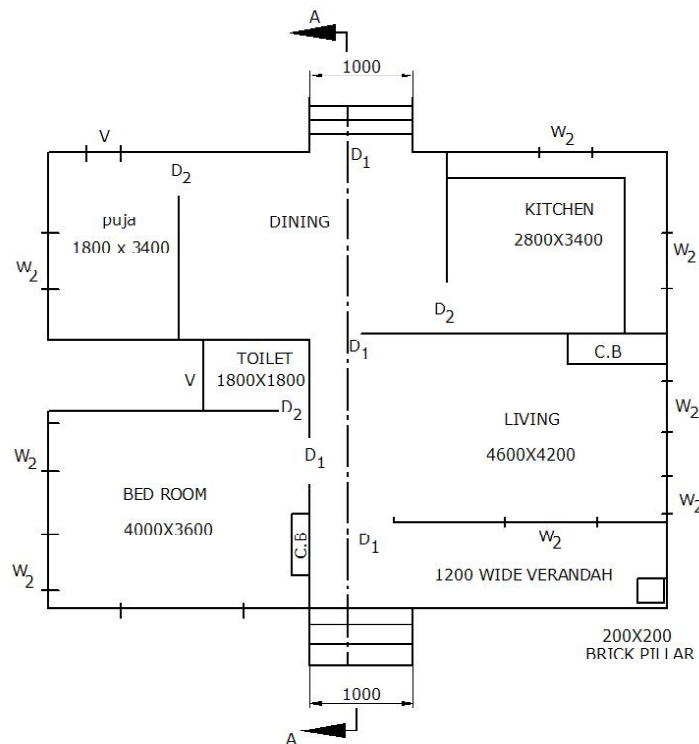
Specifications:

- (i) All the dimensions are internal measurements in the line sketch.
- (ii) All walls are 200 mm thick
- (iii) Provide sunshades with 600 mm projections with 100mm thick at the wall face and 75mm thick at free end.
- (iv) Height of walls is 3300mm from top of flooring to bottom of the roof.
- (v) Roof consists of RCC(1:2:4) slab 110 mm thick with weather proof course of flat tiles in CM(1:4)50mm thick, laid over RCC slab.
- (vi) Lintels with RCC(1:2:4) are provided on all openings and depth is 150mm.
- (vii) Flooring shall be polished stone 25mm thick over 80mm thick CC(1:3:6) over sand filling.
- (viii) Parapet 100mm thick and 700 mm height.
- (ix) Steps are provided in front and backside of length 1200mm. The tread is 300mm and rise is 150mm.
- (x) Foundation and plinth: The depth of foundation shall be 1000mm below ground level. The plain cement concrete(1:4:8) bed in the foundation will be 800mm wide and 200mm deep. The footings shall be of brick masonry in CM(1:4) width of first and second footings will be 500mm. and 400mm respectively, where as the depth of each footing is 450mm. The height of basement is 600mm and thickness is 300mm. DPC 50mm thick is provided over basement walls.

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(xi) Schedule of doors, windows, ventilators and cup board is as given in the table: (All dimensions are in mm)

D1	4	1000 x 2000	Flushed door
D2	3	900 x 2000	Flushed door
W1	1	1200 x 1500	Glazed window
W2	8	1000 x 1500	Glazed window
V	2	1000 x 600	Glazed ventilator
Cupboard (CB)	1	1200 x 1500	Flushed shutters



Line Diagram.

- 7) Draw the line diagram for a proposed hostel for 200 students to a suitable scale. (20M)

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