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10CV46

Fourth Semester B.E. Degree Examination, June/July 2015

Building Planning and Drawing

Time: 4 hrs. Max. Marks:100

Note: **1.** ***Part A is compulsory and answer any Two full Questions from Part B***
2. ***Suitable data may be assumed whenever necessary.***

PART – A

1 The line diagram of residential building is given in Fig.Q1. Draw the following to a scale of 1:100.

a. Plan at sill level **(20 Marks)**
b. Front Elevation **(10 Marks)**
c. Sectional Elevation Through Section "PQRS". **(25 Marks)**
d. Shedule of opening. **(05 Marks)**

PART – B

2 a. Draw the front Elevation and sectional plan view of Half paneled and half Glazed window of size 1.2m × 1.5m. **(10 Marks)**

b. Draw plan and sectional Elevation of R.C.C Dog legged staircase for an office building which measures 3.0m × 5.5m. The Ver distance between floor is 3.3m (including landing). Thickness of the floor slab and landing slab = 150mm. Width of stair = 1.5m. **(10 Marks)**

3 Prepare working drawing of a Isolated footing of column size 350 × 500mm reinforced with 8 number of 12mm HYSD bars together with 8mm diameter tie (stirrups) at 150mm centre to centre. Tooting size is 2.0 × 2.5m. Effective depth 500mm at the face of column to 150mm at tip. The footing Reinforced compriser of 12mmϕ HYSD bars at 150mm centre to centre both ways.

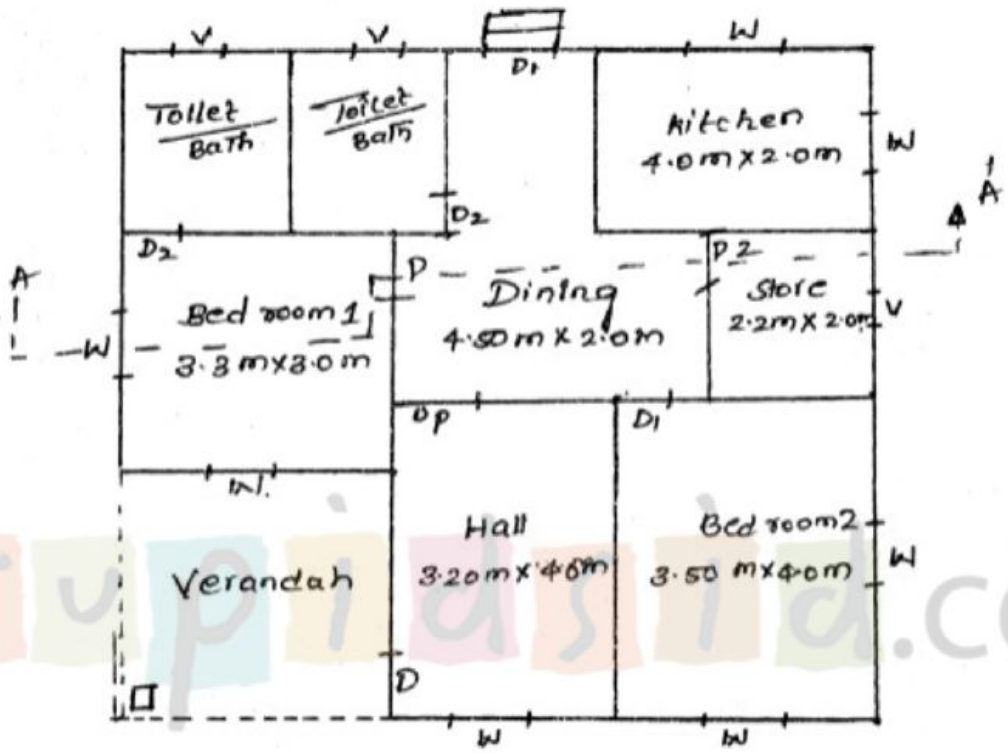
a. Sectional elevation of column with footing. **(10 Marks)**
b. Sectional plan of column and footing. **(10 Marks)**

4 Prepare a Bubble diagram (connectivity diagram) of college canteen and develop a single line diagram based on the bubble diagram (to a suitable scale)

1) Dining area for Boys and Girls separately
2) Kitchen
3) Juice Corner
4) Snacks Corner
5) Dining arc for staff
6) Store for kitchen
7) Utilities attached to kitchen
8) Eland Washing
9) Cash Counter

The student strength of college is 2500. **(20 Marks)**

5 The line diagram of a Residential building is shown in Fig (Q.5) prepare water supply connection and sanitary connection with usual notations. (Assume Road direction) and road to the site as shown in Fig.Q5. **(20 Marks)**


V
V
D1
W
Toilet
Bath
Toilet
Bath
Kitchen
4.0m X 2.0m
W
D2
D2
P
Dining
4.50m X 2.0m
P2
Store
2.2m X 2.0m
V
A
A
W
Bed room 1
3.3m X 3.0m
D
D1
W
Hall
3.20m X 4.6m
Bed room2
3.50 m X 4.0m
W
Verandah
D
W
W

(Fig. Q1 and Q5)

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