

Fourth Semester B.E. Degree Examination, June/July 2016
Building Planning and Drawing

Max. Marks: 100

Note: 1. Part – A is compulsory. Answer any TWO questions from Part – B.
 2. Missing data may be assumed suitably wherever necessary.

PART – A

1. Line diagram of residential building is given in Fig Q1. Draw to a scale of 1:100
- a. Plan at sill level (25 Marks)
 - b. Front Elevation (15 Marks)
 - c. Section at A-A (15 Marks)
 - d. Schedule of openings (05 Marks)

Note : All load bearing walls are 300 mm thick and partition walls are 200 mm thick. All walls are of Burnt brick masonry (BBM) in CM 1:6; build on sized stone masonry in CM (1:6), depth of foundation is 1.20m for load bearing walls and 1m for partition walls (-## indicates partition walls). Openings shall be suitably located with suitable dimension given line diagram is not to the scale and it indicates carpet dimensions only. Roof height can be taken as 3m and lintel level at 2.10m from floor level. Assume any other missing data.

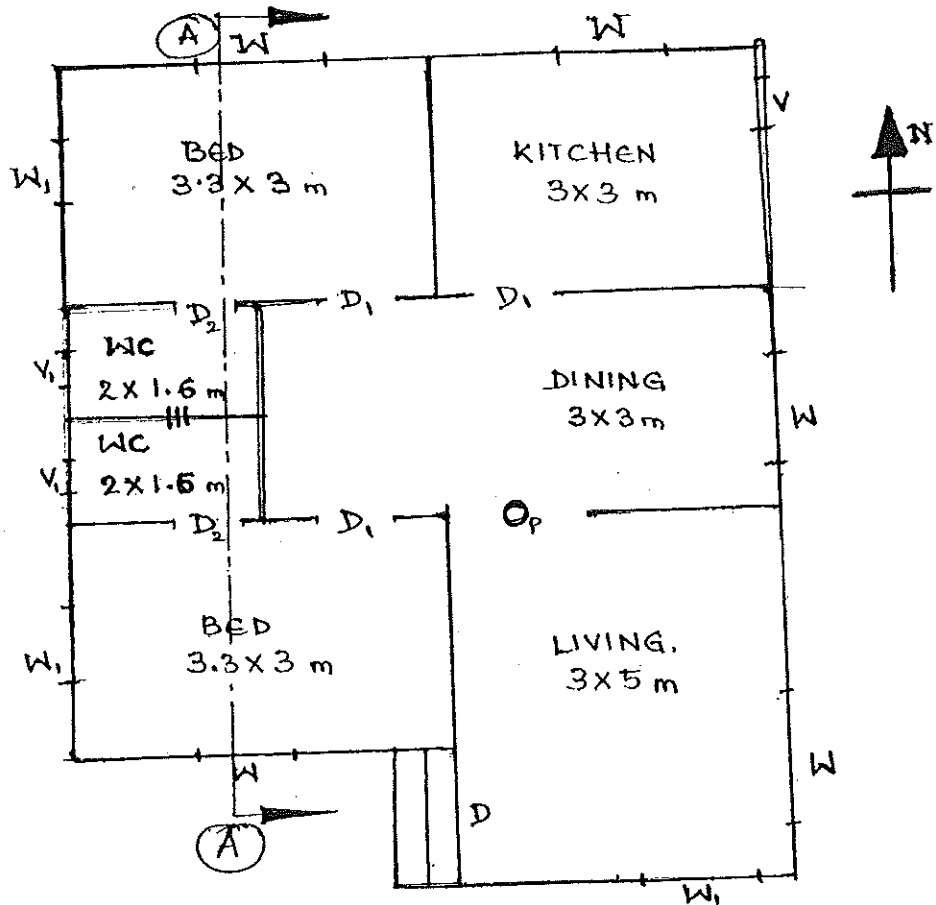


Fig. 1

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

PART – B

- 2 Draw plan and sectional Elevation of a RCC isolated sloped footing with the following details.
- Size of column $\rightarrow 350 \times 500$ mm
 - Size of footing $\rightarrow 2 \times 2.5$ m
 - Depth of foundation below GL = 1.2 m
 - Thickness of PCC (1:3:6) = 75 mm
 - Depth of footing = 600mm @ face of column
= 200mm @ edge of footing

Reinforcement details.

Column – 8 number of 16ϕ bars – main rft.
and lateral ties of 8mm bars @ 200C/C.

Footing – 12 mm bars at 120 mm C/C both ways.

(20 Marks)

- 3 Draw the front elevation, sectional plan and sectional elevation of 3 paneled single shutter door of size 1.2×2.1 m
(20 Marks)
- 4 Prepare a bubble diagram and develop a line diagram for a primary health centre to a suitable scale.
(20 Marks)
- 5 Prepare the water supply and sanitary layout for a residential building shown in Fig. Q1 with suitable notations.
(20 Marks)

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