

Model Question Paper (CBCS Scheme)

Fifth Semester B.E. Degree Examination (CIVIL) Computer Aided Building Planning and Drawing (15CV54)

Time: 3 Hours

Max. Marks: 80

Note: Answer any TWO full questions, assume any missing data suitably.

Q1. A square RCC column 500X500 mm is resting on a sloped RCC square footing. The depth of foundation is 1.5 m below the ground level. The depth of footing is reduced to 750 mm at the face of column to 300 mm at the edge of the footing. The column reinforcement consists of 8 bars of 20mm dia, with 2-legged 8 mm dia stirrups at 200 mm c/c and the footing reinforcement consists of 12 mm dia bars @ 150 mm c/c, both ways. Draw to scale the following

- Plan of the footing showing the reinforcement details.
- Vertical section of the column with footing
- Cross section of column.

(30 Marks)

OR

Q2. Draw the cross section and Plan of a RCC dog-legged stair for a building having the following details.

Clear stair hall size 2.5X4.5m, width of landing 1.2m, width of each flight 1.2 m, Rise=150mm, Tread=150mm, Thickness of waist slab = 150mm Floor to floor height 3.6m.

(30 Marks)

Q3. The line diagram of a residential building is given in **Fig Q.3**. Draw to scale the following:

- Plan at sill level.
- Front elevation.
- Section along XX.
- Schedule of openings.

(50 Marks)

Q4. The line diagram of an Executive Engineers office building is given in **Fig Q.4**. Draw to scale the following:

- Plan at sill level.
- Front elevation.
- Section along XX.
- Schedule of openings.

(50 Marks)

FIG NO Q3

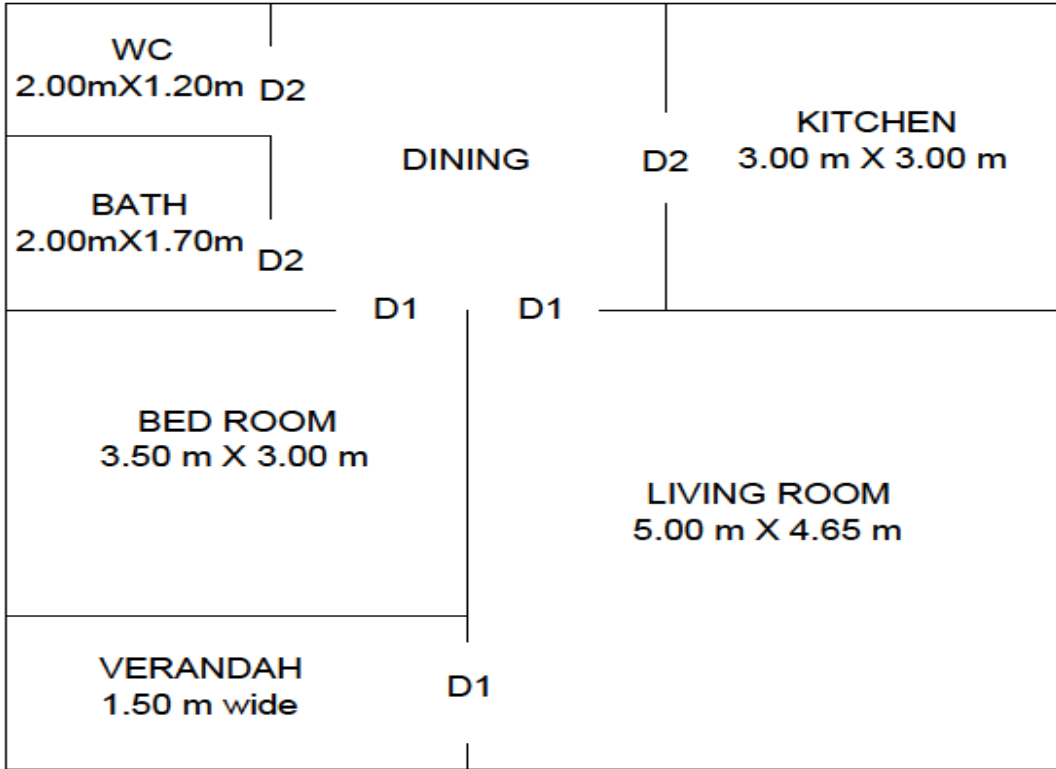


FIG NO Q4

