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**Fifth Semester B.E. Degree Examination, December 2018
(CIVIL ENGINEERING)**

COMPUTER AIDED BUILDING PLANNING AND DRAWING

Time: 3 Hours

Max. Marks: 80

Note: Answer any *TWO* full questions. Assume any missing data suitably.

Q1. Draw the cross section of Lintel beam and chejja for the following details :

Size of opening of the window =1.5m

Bearing of lintel =0.2m

Thickness of wall=0.23m

Depth of lintel beam=0.2m

Projection of chejja =0.6m

Thickness of chejja at face of lintel=100 mm and at end 50 mm.

Reinforcement details in lintel at bottom =3#10 @ top 2#8

Stirrups 2LVS 8mm dia @150 mm c/c

Chejja main rft #8@100 mm c/c Distribution 6mm dia @150 mm c/c

(30 Marks)

OR

Q2. Draw the cross section of a Divided Highway in urban area having width of pavement 10.5 m foot path 3m cycle track 3.8 m and reserve space 1.2 meter and area separator or divider 6m in width.

(30 Marks)

Q3. The line diagram of a Residential building is given in Fig Q3. Draw to scale the following :

a. Plan at sill.

b. Front elevation.

c. Section along AA.

d. Schedule of openings.

(50 Marks)

OR

Q4. The line diagram of a Residential building is given in Fig Q4. Draw to scale the following:

a. Plan at sill.

b. Front elevation.

c. Section along XX.

d. Schedule of openings.

(50 Marks)

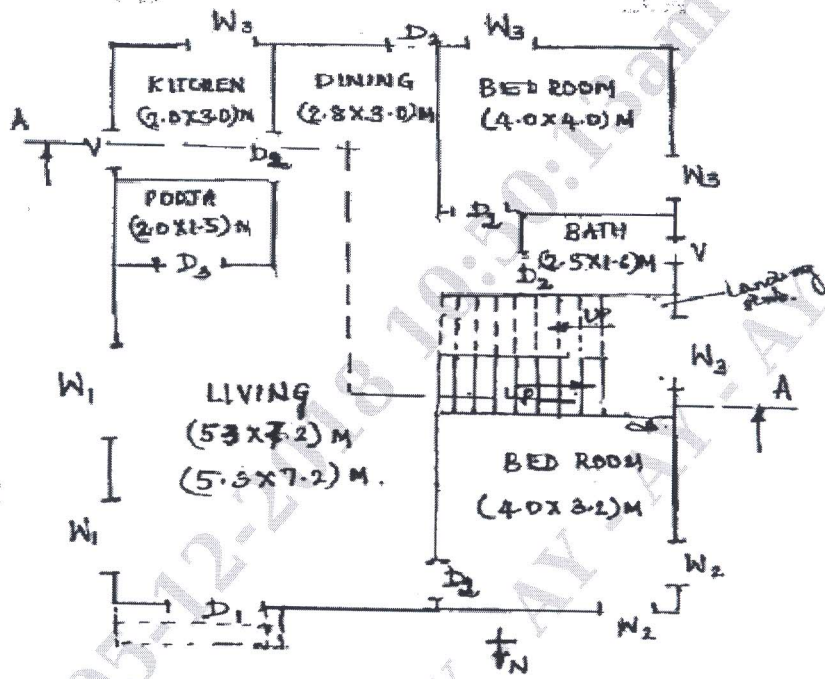


Fig. Q3

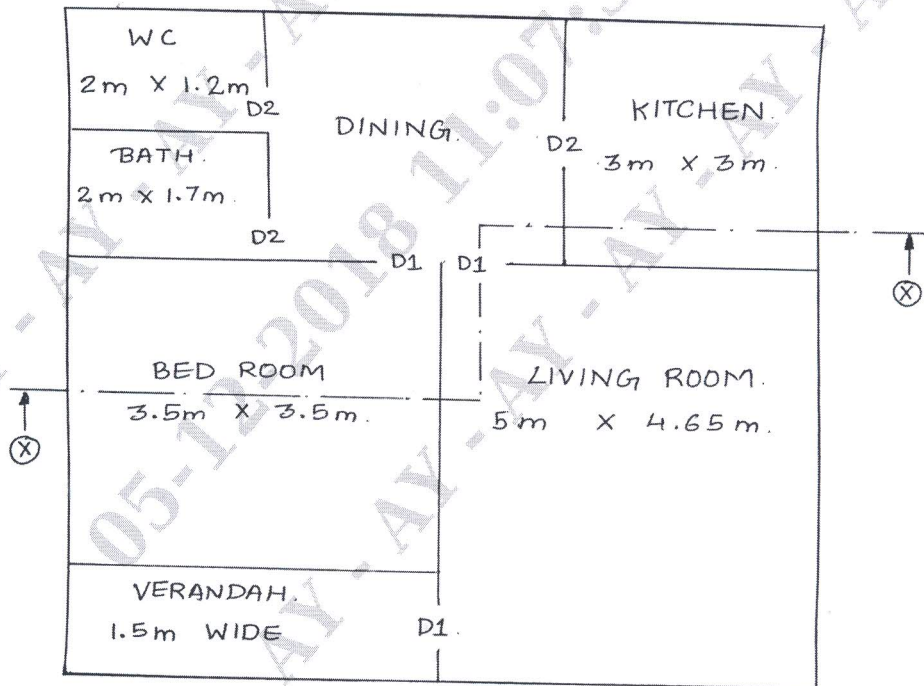


Fig. Q4