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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.** A RCC column 400X400 mm is resting on a RCC square footing. The depth of footing is 1.2 m and thickness of PCC bed is 150 mm. The column reinforcement consist of 6 bars of 16 mm dia, with 2 legged 8 mm dia stirrups at 200 mm c/c and the footing reinforcement consist of 12 mm dia bars @ 150 mm c/c, both ways. The size and thickness of the footing are 1200X1200 mm and 750 mm respectively. 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 to scale the elevation n cross section of English bond and Flemish bond with all the details for 10 courses.

(30 Marks)

- Q3.** The line diagram of a residential building is given in Fig Q3. Draw to scale the following :
- Plan at sill.
  - Front elevation.
  - Section along AA.
  - Schedule of openings.

(50 Marks)

OR

- Q4.** The line diagram of a school building is given in Fig Q4. Draw to scale the following :
- Plan at sill.
  - Front elevation.
  - Section along XX.
  - Schedule of openings.

(50 Marks)

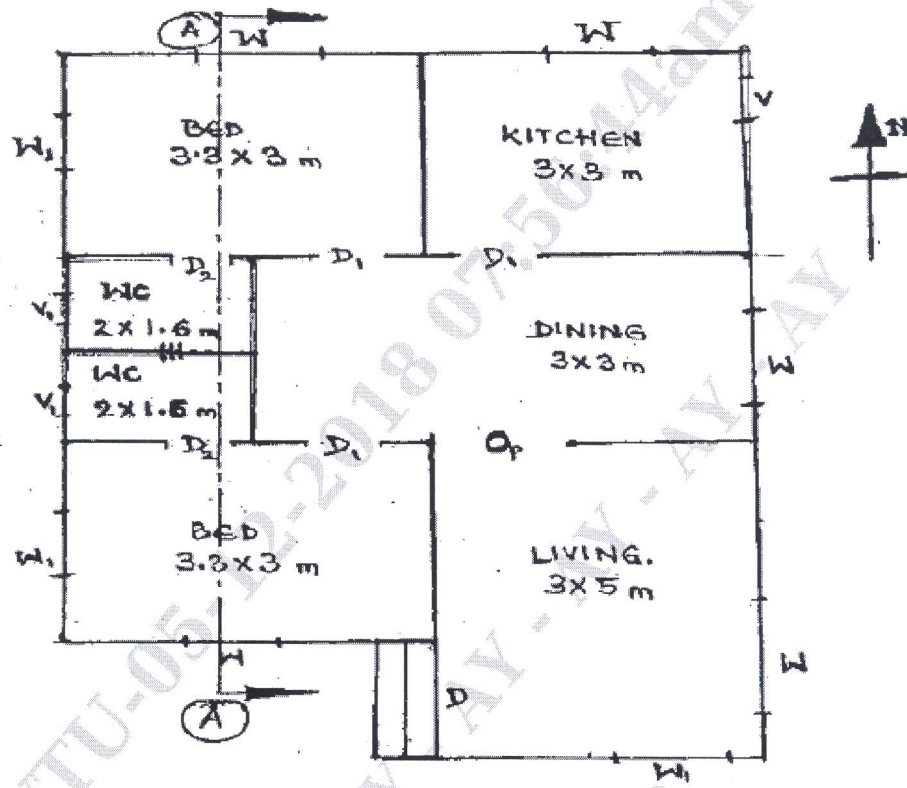


Fig. Q3

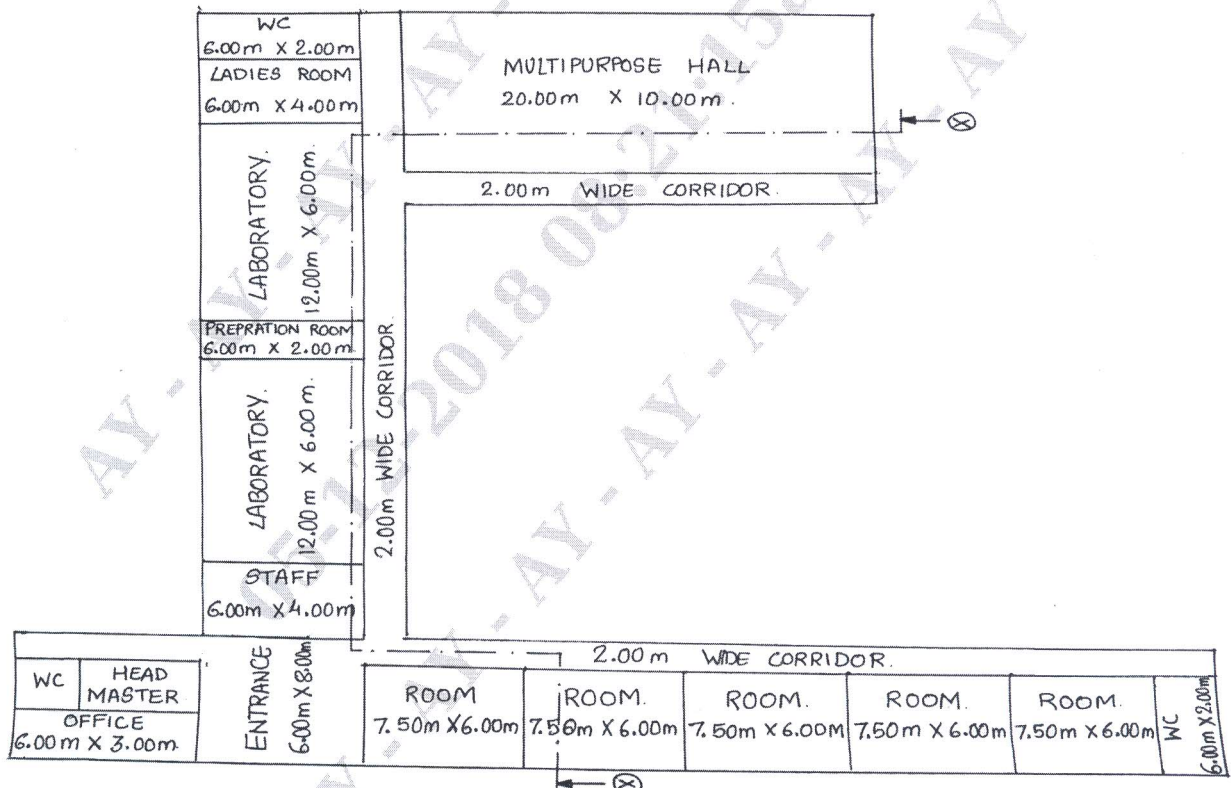


Fig. Q4