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Fifth Semester B.E. Degree Examination, December 2019  
(CIVIL ENGINEERING)

**COMPUTER AIDED BUILDING PLANNING AND DRAWING**

Time: 3 Hours

Max. Marks: 100

- Note: 1. Answer any *TWO* full questions as per INTERNAL CHOICE.  
2. Assume any missing data suitably.

**Q1.** Draw sectional elevation, plan of footing reinforcement for a combined RCC column footing for the following given details:

- Size of the column=400 X 400 mm
- Size of footing=4000 X 2000 mm
- Depth of footing = 600 mm
- Thickness of concrete bed= 100 mm
- Centre to centre distance between two columns= 2000 mm
- Longitudinal reinforcement in the column= 8 bars of 20 mm diameter.
- Transverse reinforcement= 2L- 8mm HYSD bars @ 200 mm c/c
- Footing reinforcement= Top mat 12 mm diameter placed @150 mm c/c both ways and bottom mat 12 mm diameter placed @100 mm c/c both ways

(40 Marks)

OR

**Q2.** Draw six consecutive courses for corner joints of the following walls in English and Flemish bond: One brick thick wall i.e., 200 x 200 mm

(40 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 at A-A
- Schedule of Openings

(60 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 at X-X
- Schedule of Openings

(60 Marks)

