

CBCS SCHEME

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17CV54

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 the Longitudinal section, Cross section of a rectangular simply supported RCC beam with the following data.

Clear Span=3.5m width of beam=220mm Overall depth of beam=300mm bearing width in support=200mm Main reinforcement =5 Nos-12mm diameter bars with 2 bars bent up at L/7 from centre of support Anchor/hanger bars=2-10 mm diameter Stirrups = 6mm, diameter @ 200mm C/C. Materials: M20 grade concrete.

(40 Marks)

OR

Q2. Draw the cross section of a Divided Highway in urban area having width of pavement 10 m foot path 3m cycle track 3.8m and reserve space 1.2 metre and area separator or divider 6m in width.

(40 Marks)

Q3. The line diagram of a residential building is given in Fig Q.3. Draw to scale the following:
a. Plan at sill level.
b. Front elevation.
c. Section along XX.
d. Schedule of openings.

(60 Marks)

OR

Q4. The line diagram of Hospital building is given in Fig Q.4. Draw to scale the following:
a. Plan at sill level.
b. Front elevation.
c. Section along XX.
d. Schedule of openings.

(60 Marks)

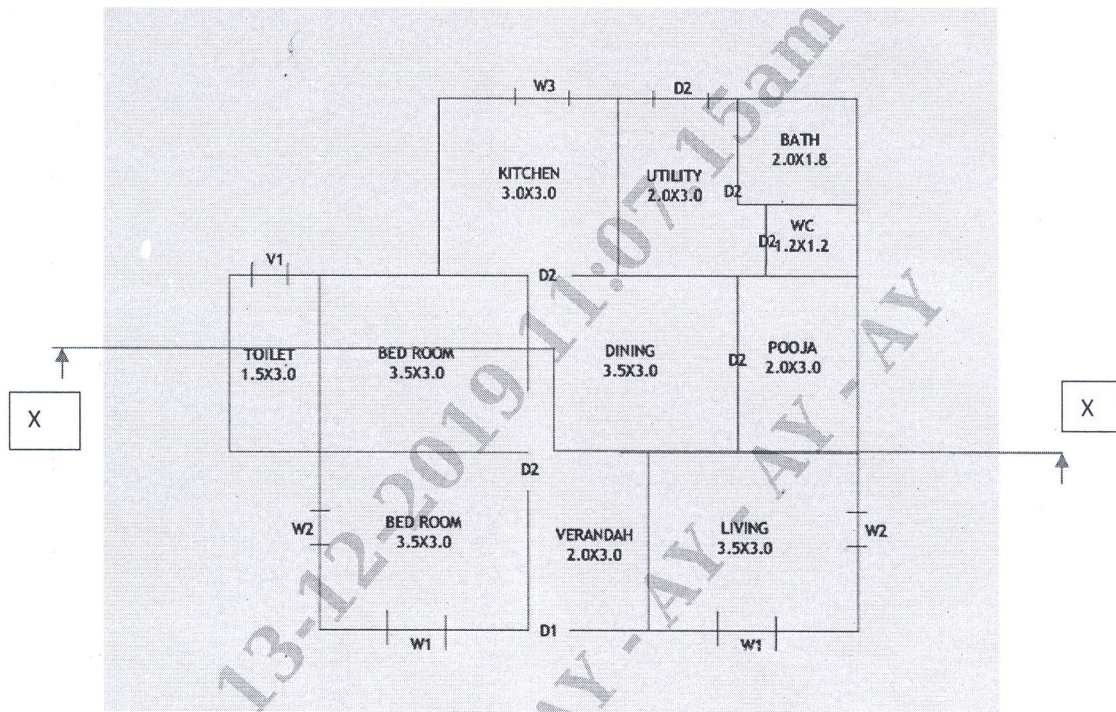


Fig Q.3.

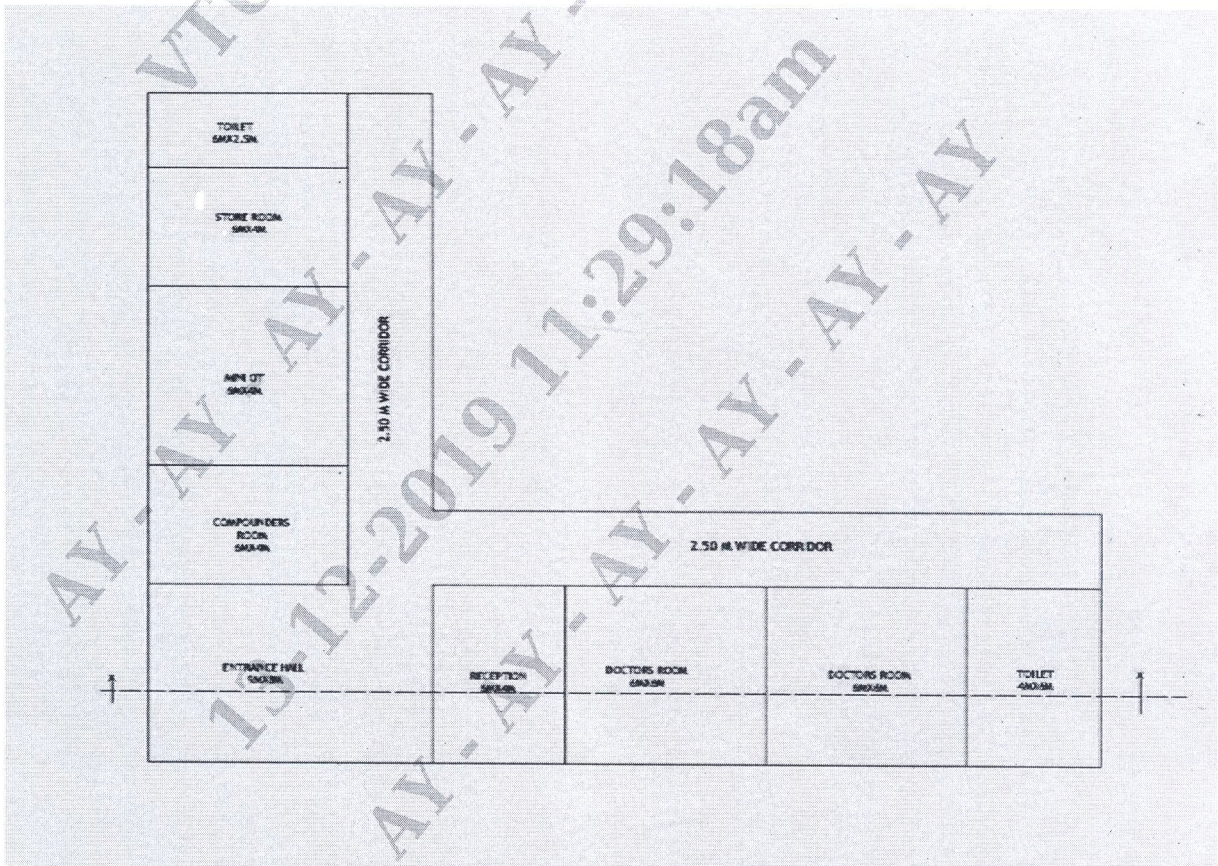


Fig Q4