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Roll No

CE/FT-305

B.E. III Semester

Examination, December 2016

Building Design and Drawing

Time: Three Hours

Maximum Marks: 70

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Note: Attempt any four questions. Question No. 1 is compulsory.

1. Draw of a single-storied Rural Primary Centre with the following units:

Waiting Hall $4m \times 6m$ $2.8m \times 4m$ Doctors Room Dispensing Room $2m \times 2.2m$ $1.7m \times 2.8m$ Toilet

Total floor area is about 50 sq.m. also draw elevation and section.

2. Design and draw a half-paneled and half glazed door with the following dimensions.

Door size: Door frame: 1200 × 2100mm 75 × 100mm

Top rail and Bottom rail:

 150×40 mm each

Lock rail: Stiles:

200 × 40mm

Panelling:

100 × 40mm

25mm raised panel

5mm thick Glass panes:

3. Draw a roof truss for a clear span of 4m., with the following dimensions:

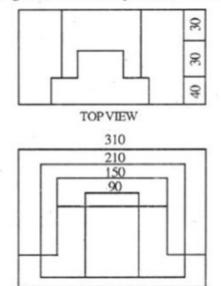
125 × 60mm Principal rafter 175 × 60mm Tie beam: 175 × 50mm Ridge board 175 × 44mm Eaves board

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4. Explain with neat diagram a grillage foundation under steel section.

- 5. The inside dimension of a staircase in a residential building are 2.00m × 4.60m. The height of floor is 3.30m and the roof of R.C.C. slab of thickness 120mm. designs and draw a proper layout of stairs.
- 6. Draw one vanishing and two vanishing point perspective from the following views of the objects as shown in fig.



FRONT VIEW

Show plan, elevation and vertical section

7. Describe the following (any four):

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- Shallow foundation
- English Bond and Flemish Bond
- Floor area Ratio
- Under Reamed Pile
- King closer and Queen closer
- Types of Windows

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