

G 1578

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Reg. No.....

Name.....

**B.TECH. DEGREE EXAMINATION, MAY 2016**

**Fourth Semester**

**Civil Engineering**

**CE 010 406—CIVIL ENGINEERING DRAWING (CE)**

**(New Scheme—2010 Admission onwards)**

**[Regular/Improvement/Supplementary]**

**Time : Three Hours**

**Maximum : 100 Marks**

*Select Suitable Scale for drawing indicating the same.*

*The select suitable data wherever needed, stating the same.*

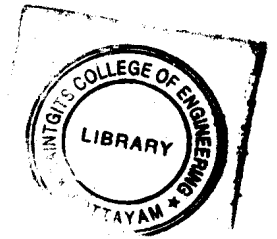
*Marks will be given for neatness.*

*Drawing Sheet will be Supplied.*

**Part A**

*Answer any one question.*

*The question carries 30 marks.*



1. (a) Draw the root line of the building given in figure 1. assuming, Mangalore pattern tiled roofing. Draw cross section A-A. Clearly name the various members and give their approximate

*Or*

- (b) Draw the plan and cross sectional elevation of an open well R.C.C. stair case to connect between two floors of 3.6 m height difference in a stair room size 6 m × 7.5 m. Assume that the building is intended for public use. Show the approximate detailing of reinforcement.

(30 marks)

Turn over

## Part B

Answer the following.  
the question carries 70 marks.

2. (a) A 35 m × 30 m site has 12 m wide pwd road abutting the longer side. Plan a residential building in the site with proper ventilation and lighting to satisfy the following requirements. Road is on the eastern side of plot.

Car porch : 12 to 18m<sup>2</sup> ; Sit out : 2 to 3 m wide

Living room : 14 to 18 m<sup>2</sup> ; Dining : 14 to 18m<sup>2</sup>

Master Bed room : 12 to 15m<sup>2</sup>, provide attached toilet.

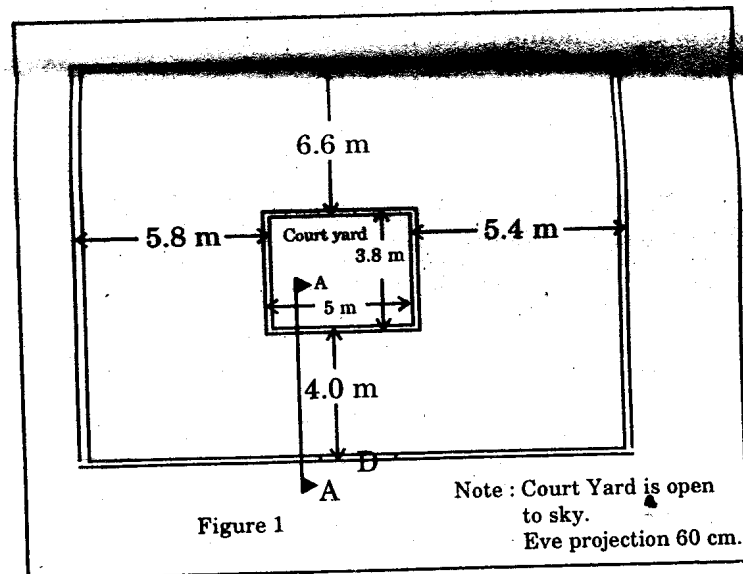
Guest Bedroom 1 : 12 to 15m<sup>2</sup>, provide attached toilet

Work Area 8 to 12m<sup>2</sup> Kitchen : 10 to 12m<sup>2</sup>.

Servants room : 10 to 12 m<sup>2</sup>.

Common toilet : 3.5 to 6m<sup>2</sup>.

Draw to suitable scale (i) Detailed plan ; (ii) Cross sectional elevation ; (iii) Front elevation ; (iv) site and service plan. Also write the specifications.



(70 marks)