S.E   Civil II CCGS

(4Hours)

[Total Marks : 80

Notes: 1. Q.No.1 is compulsory.

2. Attempt any three questions out of remaining five questions.

3. Assume any data suitably, if required.

Q.No.1. It is proposed to construct a bungalow for an Executive Engineer of P.W.D. on a plot measuring 23 m x 20 m in the suburb of Thane District. The building G+1 R.C.C. framed structure, having following requirements.

    (i) Entrance Verandah   : minimum 3 mt wide

    (ii) Living Room   : 25 sq.mt

    (iii) Engineer's Office   : 25 sq.mt.

    (iv) Master Bedroom   :20 sq.mt.

    (v) Bed Rooms (2 Nos.) :12 sq.mt each

    (vi) Kitchen cum Dining :25 sq.mt.

    (vii) Study Room   :12 sq.mt.

    (ix) Guest Room   :15 sqmt

    (x) Store   :9 sq.m.

Provide staircase, passage, sanitary unit , garage, etc. as per bye-laws.

Draw Ground Floor plan.   [20]

Q. No. 2.(a) Draw sectional elevation passing through staircase and sanitary unit , for the building given in Q.No.1   [15]

(b) Draw line plan of first floor for the building given in Q.No.1.   [05]

Q.No.3 (a) Draw front elevation of the building given in Q.No.1.   [08]

(b) Explain Principles of planning with neat sketches.   [08]

(c) Explain objects of Building bye laws.   [04]

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Q.No.4 (a) Draw roof terrace plan of the building given in Q.No.1.   [07]

(b) Draw foundation plan of the building given in Q.No.1.   [08]

(c) Explain Sunpath Diagram.   [05]

Q.No.5. (a) Explain F.S.I., Plinth Area, Carpet Area, Setback distances   [08]

(b) Draw the plan and section of a hall measuring 10 m x 8 m, having lean to roof.   [08]

(c) Differentiate between framed structure and load bearing structure.   [04]

Q.No.6. (a) Draw the site plan showing all details of the building given in Q.No.1   [08]

(b) Draw plan and section of a open well staircase for a commercial building, having floor to floor height 3.6 mt.   [08]

(c) **"Drawing is the Language of Engineer"** Explain.   [04]

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