SE-Sem-TV-Old-Civil-BD.DrI (2/06/15

## (OLD COURSE)

**QP Code: 3975** 

(4 Hours)

(Max. Marks:100)

- 1. Q.No. 1 is compulsory
- 2. Attempt any four questions from remaining six questions.
- 3. Assume any data suitably if not given and state it clearly.
- 1. It is proposed to construct a RESIDENTIAL BANGALOW in the suburban area of Thane District for an executive engineer of P.W.D.. The building is (G+1) R.C.C. framed structure, The plot size is 30 mx28 m. Following are the requirements:

(i)	Entrance Lobby	: min 3 mt wide
(11)	Engineer's Office	: 25-30, sq mt
(iii)	Living Room	: 20-25 sq mt
(iv)	Study Room	: 12-15 sq mt
(v)	Master Bedroom	: 20-25 sq mt
(vi)	Bedroom (2 Nos)	:10-12 sq mt
(vii)	Kitchen cum Dining Room	: 20-25 sq mt
(viii)	Children room	: 10-12 sq mt.
(ix)	Stores	: 10-12 sq.mt.

Provide passages, staircase, sanitary unit, parking area etc. as per byelaws. Place the units are per their requirements on Ground and First Floor.

Draw Ground floor plan.			(20)

- 2. (a) Draw first floor line plan of the building given in Q.No.1. (10)
  - (b) Draw the foundation plan for the building given in Q.No.1 (10)
- Draw the detailed sectional elevation passing through staircase and other important unit of building given in Q.No.1. (20)
- 4 (a) Differentiate among Load Bearing, Framed and Composite structure with neat sketches and examples. (10)
  - (b) Draw the plan and section of pitched roof on hall measuring 8m x 7m. (10)
- 5. (a) What are various objects of building bye-laws. Explain Carpet area, Floor area. (10)
  - (b) Draw roof terrace plan of the building given in Q.No.1 (10)

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6. (a) (b) Draw the front elevation of the building given in Q.No.1.

(10)

- (b) Draw the site plan showing proposed built-up area, internal road, parking area, open space etc of the building given in Q.No.1. (10)
- 7. (a) Draw the plan and section of open well staircase for an educational building (G+1) having floor to floor height 3.6 mts. Also show design calculations. (10)
  - (b) Explain Working drawing and submission drawing.