## Paper / Subject Code: 38804 / BUILDING DESIGN & DRAWING-I

## 1T00614 - S.E.(CIVIL)(Sem IV)(CBSGS) / 38804 - BUILDING DESIGN & DRAWING-I

Q.P. Code: 18498

(4 Hours) (Max. Marks:80)

1.	Q.No. 1 is compulsory	
2.	Attempt any three questions from remaining five questions.	O No
3.	Assume any data suitably if not given and state it clearly.	
1.	It is proposed to construct a <b>RESIDENTIAL APARTMENT (STILT+3)</b> in Thane City . The bu	uilding
	is, R.C.C. framed structure, The plot size is 28 m x 30 m.	
	There are two flats on each floor, Type 1: 1 BHK (Approx. Area 55 sq. mt.) and Type 2: 2BHK (Approx. 70 sq.mt.)	
	Provide passages, staircase, parking area etc. as per byelaws.	S. S.
	(a) Draw Typical floor plan.	(15)
	(b) Draw Stilt Level plan	(05)
2.	(a) Explain Principles of planning with neat sketches.	(10)
	(b) Draw the foundation plan for the building given in Q.No.1	(10)
3.	(a) Draw the detailed sectional elevation passing through staircase and other important	t
	units of building given in Q.No.1.	(15)
	(b) Explain Working drawing and submission drawing	(05)
4.	(a) Differentiate among Load Bearing, Framed and Composite structure with neat	
	sketches and examples.	(06)
	(b) Draw the plan and section of pitched roof on hall measuring 8m x 8m.	(08)
	(c) Explain Sun Path diagram with its application in building planning	(06)
5.	(a) 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)
6.	(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) What are various objects of building bye-laws. Explain Carpet area.	(05)
	(c) Draw roof terrace plan of the building given in Q.No.1	(05)

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