T.E. Civil Ⅴ CBSGS

Q. P. Code : 16477 ⑮

(4 Hours) (Max. Marks:80)

N. B. :

1. Question No. 1 is **compulsory**.
2. Attempt **any three** questions from remaining **five** questions.
3. Assume any **data** suitably if **not given** and **state it clearly**.

1. It is proposed to construct a Hospital Building in the suburban area of Thane District. The building is G+1 R.C.C. framed structure, having following requirement. The plot area is 32 m x 30 m.

(a)	Entrance Lobby with inquiry counter	: min 4 mt wide
(b)	Chief Medical Officer's Office	: 40 sq mt
(c)	Consulting Rooms [4 Nos]	: 10 sq. mt. each
(d)	Pathology Lab.	: 50 sq mt
(e)	Radiology Lab	: 50 sq mt
(f)	Operation Theatre	: 50 sq.mt.
(g)	ICU	: 50 sq mt
(h)	Male Ward [10 beds]	: 100 sq mt.
(i)	Female & Children ward [10 beds]	: 100 sq.mt.
(j)	Drug Stores	: 30 sq.mt.
(k)	Canteen	: 50 sq.mt
(l)	Emergency Ward	: 50 sq.mt

Provide spacious waiting area outside consulting rooms, passages, staircase, sanitary unit, parking area etc. as per byelaws. Assume any other requirement if required.

    (a) Draw Ground floor plan. [15]
    (b) Draw first floor line plan of the building given in Q.No.1 [05]

2.   (a) Explain Importance of various principle of planning in hospital building [10]
    (b) Draw the foundation plan of the building given in Q.No.1. [10]

3.   (a) Draw the detailed sectional elevation passing through staircase [15]
      and other important unit of building given in Q.No.1.
    (b) Draw the front elevation the building given in Q.No.1. [05]

4. Draw the two point perspective of the building which you have plan for Q.No.1. [20]

5.   (a) Draw the site plan showing proposed built-up area, internal road, [10]
      parking area, open space etc of the building given in Q.No.1.
    (b) Draw the roof terrace plan of the building in Q.No.1. [10]

6. Write short notes on **any four** :- [20]
    (a) Architectural Compositions
    (b) Built Environment-An integrated approach
    (c) Master Plan and Green Belt
    (d) Town planning
    (e) Green Building.