

T.E. Civil V - CBSGS

BDD-II

19.12.16
Q.P. Code : 577201

175

(4 Hours)

[Total Marks : 80

N.B. : (1) Q.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 requirements. The plot area is 28 m x 30 m.

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|---|-------------------|
| (i) Entrance Lobby with inquiry counter | : min 4 m wide |
| (ii) Chief Medical Officer's Office | : 40 sq mt |
| (iii) Consulting Rooms [4 Nos] | : 10 sq. mt. each |
| (iv) Pathology Lab. | : 50 sq mt |
| (v) Radiology Lab | : 50 sq mt |
| (vi) Operation Theatre | : 50 sq mt |
| (vii) I.C.U. | : 50 sq mt |
| (viii) Male Ward [10 beds] | : 100 sq mt. |
| (ix) Female & Children ward [10 beds] | : 100 sq.mt. |
| (x) Medical Stores | : 30 sq.mt. |
| (xi) Canteen | : 50 sq.mt |
| (xii) Emergency Unit | : 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. Adjust the above requirements in two floors suitably

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|---|----|
| (a) Draw Ground floor plan | 15 |
| (b) Draw first floor plan (Line Plan only) | 5 |
| 2. (a) Draw the detailed sectional elevation passing through staircase and other important units of building given in Q.No.1. | 15 |
| (b) Draw the front elevation of the building given in Q.No.1. | 5 |
| 3. Draw the two point perspective of the building which you have planned for Q.No.1. | 20 |

TURN OVER

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4. (a) Draw the foundation plan for 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
5. (a) Draw the One Point Perspective of the Plan given in Fig. No.1. 14
 (b) Explain concept of built environment in planning of building. 6
6. Write Short Notes on following : 20
 (a) Use of computers in planning and designing.
 (b) Green Building
 (c) Slum & Slum Clearance
 (d) Town planning

