

**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 28 m x 26 m.

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|---|-------------------|
| (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.

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| (a) Draw Ground floor plan.  | [15] |
| (b) Draw first floor line plan of the building given in Q.No.1.  | [05] |
| 2. (a) Explain 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 and other important unit of building given in Q.No.1.           | [15] |
| (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, parking area, open space etc of the building given in Q.No.1. | [10] |
| (b) Draw the roof terrace plan of the building in Q.No.1.  | [10] |
| 6. Write short notes on <b>any four</b> : -  | [20] |
| a) Architectural Compositions  |      |
| b) Built Environment-An integrated approach  |      |
| c) Master Plan and Green Belt  |      |
| d) Town planning   |      |
| e) Green Building  |      |
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