

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.

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