

(4 Hours)

[Total Marks : 100

- N. B. :** (1) Question No. 1 is **compulsory**.
 (2) Solve any **four** questions from the remaining.
 (3) **All** questions carry **equal** marks.
 (4) Assume any suitable data, if necessary and clearly state it.

1. It is proposed to construct a Boy's Hostel in an Engineering College on a plot of 200 m × 150 m; as (G+1) R.C.C. framed structure. Following are the facilities to be provided.

They are

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|---|------------------------|
| (i) 2-Seated Rooms = 15 no.
(Carpet area = 15 m ² each) | |
| (ii) 3-Seated Rooms = 20 no.
(Carpet area = 20 m ² each) | |
| (iii) 4-Seated Rooms = 20 no.
(Carpet area = 30 m ² each) | |
| (iv) Entrance and Reception | = 20 m ² . |
| (v) Hostel Warden Room | = 15 m ² . |
| (vi) Indoor Games | = 30 m ² . |
| (vii) T. V./Audio Room | = 40 m ² . |
| (viii) Newspapers & Magazines | = 30 m ² . |
| (ix) Kitchen | = 40 m ² . |
| (x) Dining Area | = 100 m ² . |

Provide Passages, Toilets, staircases etc. as per the Bye-Laws.

Assume Floor – Floor height as 3.9 m.

Draw the following with suitable scale.

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|---|----|
| (a) Ground Floor Plan | 15 |
| (b) Line plan of first Floor | 5 |
| 2. Draw the Sectional Elevation for the building you have planned in Q. No. 1. | 20 |
| 3. (a) Draw the Front Elevation for the building you have planned in Q. No. 1. | 12 |
| (b) Draw the Site Plan for the proposed building. | 8 |
| 4. (a) Draw the detailed Foundation Plan with a section of one Footing. | 12 |
| (b) Write detailed notes on “Modular Planning”. | 8 |
| 5. Draw the One-Point Perspective for the building you have proposed in Q. No. 1. | 20 |

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6. Draw the 2-Point-Perspective for a Workshop with the following data : **20**
- | | |
|--|----------------|
| Size of Workshop | = 20 m. × 10 m |
| Height of Workshop
(Excluding Pitched Roof) | = 4.0 m |
| Eye level | = 2.0 m |
| Plinth level | = 0.6 m |
7. Write short notes on the following:-
- | | |
|---|----------|
| (a) Green Building | 5 |
| (b) Master Plan | 5 |
| (c) Slum Clearance and Redevelopment | 5 |
| (d) Use of Computers in Building Drawing. | 5 |
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