

N.B.: (1) Question no.1 is compulsory

(2) Answer any three questions from the remaining questions

(3) All questions carry equal marks

1. It is proposed to construct a high school building in a district place as (G+1) R.C.C. Framed structure with the following facilities, on a plot of **35 m.X35 m.**

- 1) No. of Class rooms =10 no.(each having 75 sq.m. carpet area)
- 2) No. of Labs =4 no. (75sq.m. each)
- 3) No. of Drawing rooms =3 no. (60 sq.m. each)
- 4) Computer room =60 sq.m.
- 5) Principal's room =45sq.m.
- 6) Office =75 sq.m.
- 7) Library –cum-reading Room =75sq.m.
- 8) Gymkhana =100 sq.m.
- 9) Canteen =60 sq.m.
- 10) Indoor games =100 sq.m.

Assume floor to floor height as 3.6 m. Provide adequate passages, Staircases, Toilet/sanitary units as per the bye-laws. Draw the following according to some suitable scale.

- | | |
|--|-----------|
| GROUND FLOOR PLAN | 20 |
| 2. (a) Draw line plan of first floor of proposed building in Q.1 | 08 |
| (b) Draw front elevation of the planned building in Q.1 | 12 |
| 3. Draw the Sectional Elevation for the building you have planned in Q.no.1 | 20 |
| 4. Draw the One-point perspective for the building you have planned in Q.no.1 Assume the eye level at 1.5 m. from Ground level | 20 |
| 5. Draw the 2 point –perspective for a workshop with the following data | 20 |
| Size of workshop = 20m x 10m | |
| Height of workshop = 4m (excluding pitched Roof) | |
| Eye level = 2.0 m | |
| Plinth Level = 0.6m | |
| 6. Write short notes on the following (solve any 4, each 5 marks) | 20 |
| (a) Green Building | |
| (b) Master plan | |
| (c) Slumclearance and Redevelopment | |
| (d) Use of computers in buiding drawing | |
| (e) Green belt | |
