

- 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 :-

- (i) No. of Class Rooms = 16 no. (each having 75 sq. m. carpet area)
- (ii) No. of Labs = 3 no. (60 sq. m. each)
- (iii) No. of Drawing Rooms = 3 no. (60 sq. m. each)
- (iv) Computer Room = 75 sq. m.
- (v) Principal's Room = 60 sq. m.
- (vi) Office = 75 sq. m.
- (vii) Library-cum-Reading Room = 75 sq. m.
- (viii) Gymkhana = 100 sq. m.
- (ix) Canteen = 60 sq. m.
- (x) Indoor Games = 100 sq. m.

Assume Floor to Floor height as 3.6 m. Provide adequate passages, Staircases, Toilets/ Sanitary units as per the bye-laws.

Draw the following according to some suitable scale.

GROUND FLOOR PLAN 20

2. Draw the sectional Elevation for the building you have planned in Q. No. 1. 20

3. Draw the TWO - POINT PERSPECTIVE for the building you have planned in Q. No. 1. Assume the Eye-level at 2.0 m. from Ground Level. 20

4. (a) Draw the ONE - POINT PERSPECTIVE for a WORKSHOP with the following data : 15

SIZE OF WORKSHOP = 25 m. × 12 m.

Height of workshop = 4.5 m.

(Excluding pitched roof)

Eye-level from Ground Level = 2.0 m.

Plinth Level = 0.6 m.

(b) Write notes on "GREEN BUILDING" concept. 5

5. (a) Draw the detailed foundation plan and section of one footing to the building you have planned in Q. No. 1. 10
- (b) Write detailed notes on the following :-
- (i) Principles of Modular Planning 5
 - (ii) Massing and composition 5
6. (a) Explain in detail about the principles of planning of Hospital Building, alongwith facilities, area of room, size of rooms etc. 10
- (b) Draw the TWO - POINT PERSPECTIVE with the following details :- 10
- Size of Dining Hall = 20 m. × 15 m.
 - Floor - Floor Height = 3.6 m.
 - Plinth Height = 0.6 m.
 - Provide doors, windows, Chajja projections etc.
 - Assume Eye-Level at 10.0 m. above the Ground Level.