

Time: 4 Hours

Max.Marks:80

Note: 1. Q. No. 1 is compulsory.

2. Attempt any 3 of the remaining questions.

3. Assume any suitable data, if required and clearly mention the same.

Q.No.1 It is proposed to construct a Residential Bungalow as (G+1) R.C.C framed structure on a plot of 40 m.X45 m. with Floor-Floor height of 3.3 m. Following are the requirements:

- (i) Living Room = 22 Sq.m.
- (ii) Drawing Room = 20 Sq.m.
- (iii) Master's Bed Room (with A.T) = 20 Sq.m.
- (iv) Kitchen = 12 Sq.m.
- (v) Dining = 16 Sq.m.
- (vi) Bed Room = 16 Sq.m.
- (vii) Guest Room = 14 Sq.m.
- (viii) Pooja Room = 12 Sq.m.

Provide Toilets, passages etc. as per the Bye-laws. Draw the following with asuitable scale:

- (a) GROUND FLOOR PLAN 15
- (b) LINE PLAN OF FIRST FLOOR 05

Q.No.2. Draw 2-Point perspective for the building, you have proposed in Q.No.1 20

Q.No.3 (a) Draw SITE PLAN for the building, you have proposed in Q.No.1 05
(b) Draw Sectional Elevation for the building, you have proposed in Q.No.1 15

Q.No.4. Plan, Design and draw a HOTEL(Lodging &Boarding) building in a City with the following facilities as (G+1) R.C.C framed structure .(Floor-Floor height = 3.6 m.).

- (i) Single-Bed Rooms = 6 no.(each 15 Sq.m. with A.T)
- (ii) Double-Bed Rooms = 6 no.(each 20 Sq.m. with A.T)
- (iii) Entrance & Reception = 40 Sq.m.
- (iv) KITCHEN = 60 Sq.m.
- (v) DINING = 100 Sq.m.
- (vi) LAUNDRY = 30 Sq.m.
- (vii) HEALTH CLUB = 60 Sq.m.

Provide Toilets, passages etc. as per the Bye-laws. Draw the following with asuitable scale:

- (a) GROUND FLOOR PLAN 15
- (b) LINE PLAN OF FIRST FLOOR 05

Q.No.5 (a) Draw Front Elevation for the building, you have proposed in Q.No.1 10
(b) Draw Foundation Plan & details of one Footing for the building, you have proposed in Q.No.1 10

Q.No.6 Write Short notes on the following: 20

- (a) Principles of TOWN PLANNING
- (b) GREEN BUILDING
- (c) Principles of Planning for Residential structures
- (d) SUN-PATH DIAGRAM/WIND-ROSE DIAGRAM
