

SE/CIVIL/SEMIV/CBCS

Q. P. Code: 40831

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.

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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.

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

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

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

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

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
- (b) LINE PLAN OF FIRST FLOOR

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

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

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