

Time: 4 Hrs.

Max.Marks:80

- Note:** 1. **Q. No. 1 is compulsory.**
 2. Attempt **any 3 from 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 separate **LIBRARY** building in a College with the following facilities as (G+1) R.C.C framed structure .(Floor-Floor height = 3.6 m.).

- (i) Entrance & Enquiry = 50 Sq.m
- (ii) Main Book Section = 100 Sq.m
- (iii) Reference Book Section = 100 Sq.m
- (iv) Newspapers & Magazines = 30 Sq.m
- (v) DINING = 10 Sq.m.
- (vi) T.V & Audio Room = 30 Sq.m.
- (vii) Librarian's Room= 60 Sq.m.
- (viii) Store Room = 50 Sq.m
- (ix) Book Binding Room = 50 Sq.m
- (x) Internet Facility = 40 Sq.m

Provide Toilets, passages etc. as per the Bye-laws. Draw the following with a suitable 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
