LJ-10627

Con. 7946-13.

(4 Hours)

[ Total Marks: 100

- N. B.: (1) Question No. 1 is compulsory.
  - (2) Answer any four questions from the remaining.
  - (3) All questions carry equal marks.
  - (4) Assume any suitable data, if necessary.
- 1. It is proposed to construct (G+2) Storied Apartment Residential building as R.C.C. framed structre on a plot of 50 m. × 40 m. in a public sector township.

Each floor consits of Type-'A' and Type - 'B' Apartments. Comman Staircase is provided as a vertical circulation. Assume floor to floor height as 3.3 m. Following are the requirements.

Type – 'A' Apartment : 2 B.H.K.

- [1 living Room
- 2 Bed Rooms
- 1 Kitchen
- 1 Dining Hall
- 1 Comman Toilet
- 1 Attached toilet with are Bed Room]

Type – 'B' Apartment : 1 B.H.K.

- [1 living Room
- 1 Bed Rooms
- 1 Kitchen-cum-Dining
- 1 Comman Toilet]

Assume the carpet areas for each facility as per Bye-Laws and Regulations. Draw the following:—

Ground Floor Plan

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- 2. Draw the Sectional Elevation for the building you have proposed in Q. No. 1.
- 20
- 3. (a) Draw the Front Elevation for the building you have proposed in Q. No. 1.
- 15

(b) Draw the SITE PLAN for the building.

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4. Draw the detailed FOUNDATION PLAN and Section of one FOOTING for the building you have proposed in Q. No. 1

5.	(a)	Explain ZONING Regulations and Building Bye-Laws in detail.	10
	(b)	Draw the constructional details (Sectional Elevation) for a KING-POST-ROOF TRUSS.	10
6.	(a) (b)	Write in detail about "Principles of Planning" for Residential Buildings. Write short notes on the following:-	1(
		(i) WIND-ROSE (Circulation) Diagram	5
		(ii) Sun-Path Diagram.	5
7.	(a)	Draw the Roof Terrace Plan and Section of the same for the building you have proposed in Q. No. 1.	1(
	(b)	Draw the plan, Elevation and Section for a Quarter - turn Staircase in a Residential building assuming Floor-to-Floor height as 3.3 m. (shows all calculations).	1(