

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-III (NEW) EXAMINATION – SUMMER 2024

Subject Code:3130609

Date:29-06-2024

Subject Name: Building and Town Planning

Time:10:30 AM TO 01:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) Enlist the Principles of planning and explain any one.	03
	(b) Briefly outline the factors influencing the selection of site for various type of public Building.	04
	(c) Draw a plan of a two storied residential building on a plot size 18m * 22 m for a family of 5 person belongs to MIG, take FSI 1.1, as per principles of planning and architecture by considering building bye laws. Also prepare schedule of opening and area table. Assume North direction and other necessary data.	07
Q.2	(a) Define terms: (i) Control Line (ii) Building Line (iii) Plinth Area.	03
	(b) Explain objectives of ODPS.	04
	(c) Draw a line diagram of a Bank. Take size of units according to general requirements of public buildings.(Basement, Ground Floor, First Floor)	07
OR		
	(c) Explain with sketch house drainage system in building.	07
Q.3	(a) Define terms: (i) Station point (ii) Picture plan (iii) Line of Sight.	03
	(b) Explain satellite town.	04
	(c) Draw two-point perspective view of sketch shown in Figure 1 .	07
OR		
Q.3	(a) Enlist the type of surveys conducted for planning.	03
	(b) Differentiate between one point and two point perspective.	04
	(c) Discuss the general features of earth quake resistant buildings.	07
Q.4	(a) Define terms: (i) Master plan (ii) Margin (iii) Mezzanine floor.	03
	(b) Differentiate between NBC and local building byelaws.	04
	(c) Explain BIM in detail.	07
OR		
Q.4	(a) List out the disadvantages of ribbon development.	03
	(b) Explain the necessity of survey for town planning purpose.	04
	(c) Explain Growth of town in detail.	07

- Q.5 (a) Enlist the various type of land uses. 03
 (b) Explain the importance of road network in town planning. 04
 (c) Discuss the stages of preparation of master plan. 07
- OR**
- Q.5 (a) Define terms: 03
 (i) Neighborhood unit (ii) Zoning (iii) CBD
 (b) Explain multiple Nuclei model 04
 (c) Discuss the various methods of slum clearance 07

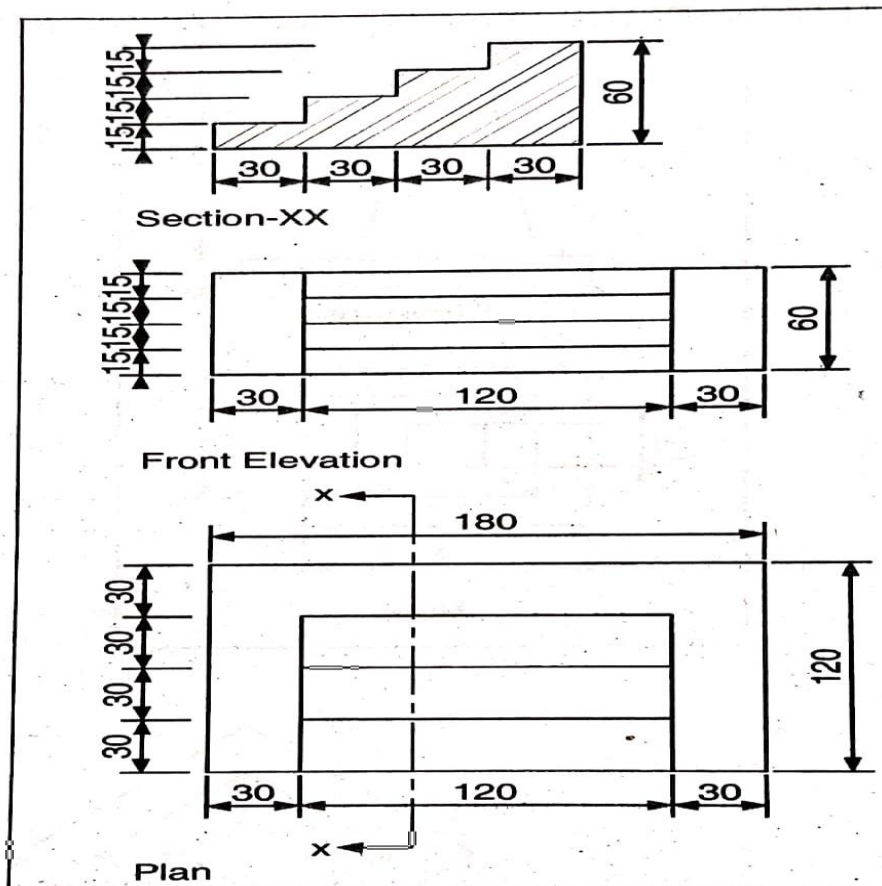


Fig. No. 1