

(Following Paper ID and Roll No. to be filled in your
Answer Books)

Paper ID : 181611

Roll No.

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B. Arch.

Theory Examination (Semester-VI) 2015-16

ARCHITECTURAL DESIGN-VI

Time : 6+6=12 Hours

Max. Marks : 100

1. Drawing sheets, tracing sheets and butter paper will be provided for the examinations.
2. The examination shall be held over two days.
3. The drawings completed on the first day shall be left in the examination hall and shall be completed and submitted on the second day.
4. Suitable data can be assumed.
5. National building code, byelaws are applicable to the site.
6. Use appropriate scale suitable as per sheets provided.

A SHOPPING COMPLEX

Introduction A shopping complex is to be constructed on a busy shopping area of Lucknow city classified as commercial use zone by LDA. The building is to respond to the modern

expression of commercial built form along with the user requirement like changing needs of shop owner (in terms of display technique, interior details and layout). Also to consider the behavioral pattern and shopping preference of the consumers. Apart from shopping activities, support functions like restaurant and play areas and service area to be provided. The complex also is to respond to the structural system and service integrations.

Site The site of 70m × 50m is located on a road junction, with North South axis lying on the longer side of the site. The Western end of the site faces 45m wide road and Southern end of the site faces 30m wide road.

Guidelines The proposed building is situated in the Commercial use zone as per the LDA classification the guidelines as per the LDA development control rules are as follows

Maximum FAR	1.5
Maximum Ground coverage	65 percent
Maximum height	20 metres
Minimum Front setback	Abutting road width
Minimum side setback	1/3 rd height of the building subject to a minimum of 2m of either side.
Minimum rear setback	1/3rd height of the building subject to a minimum of 2m.

Parking standards

- ¹ Floor area upto 50sq. m = Nil?
- ¹ Floor area above 50sq.m & below 100 sq.m = 1 car space
- ¹ For every additional = 1 car space 50 sq.m or part there of exceeding 100 sq.m

Parking dimension :

5m × 2.5m per parking bay with min. one way drive way of 3.5 m and min. two way drive way of 7.2m

DESIGN REQUIREMENT

Areas mentioned are in sq.m and are approximate. Where area is not given, candidates are expected to work out areas themselves on the bases of the usage pattern

Shops-textile shop,

showrooms etc.

40% of total building area

Impulse goods

20% of building area

Essential commodities

25% of total building area

Restaurant, play area

10% of total building area

Gallery, public spaces

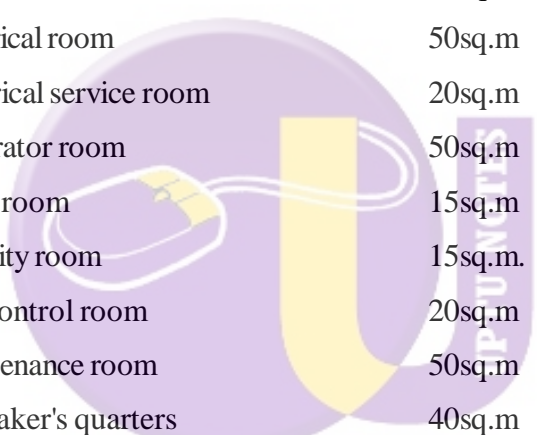
5% of total building area

(3)

P.T.O.

Note :

- 1 Shopping room size range from 15-30 sq.m
- 1 Provision of toilets, common spaces and fire escape stairs to follow the norms and standards.

Services:

A.C Plant room	100sq.m
Pump room	10sq.m
Electrical room	50sq.m
Electrical service room	20sq.m
Generator room	50sq.m
BMS room	15sq.m
Security room	15sq.m.
Fire control room	20sq.m
Maintenance room	50sq.m
Caretaker's quarters	40sq.m

DRAWING REQUIREMENT

- | | | | |
|----|---|---------------|------|
| 1. | Site plan | 1:200 / 1:500 | (15) |
| 2. | Detail floor plan / plans | 1:100 | (40) |
| 3. | Min.2 nos. critical section and | 1:100 | (20) |
| 4. | Min. 1 nos. front elevation | 1:100 | (10) |
| 5. | Views-internal or external explaining the design. | | (15) |