Reg.	No.					
0	- SALES					

MANIPAL UNIVERSITY

FIRST SEMESTER B. ARCH. DEGREE EXAMINATION – FEBRUARY 2016

SUBJECT: ARC 101 – ARCHITECTURAL DESIGN & DETAILING – I (2014 SCHEME)

Thursday, February 25 and Friday, February 26, 2016 (Thursday 10:00 – 16:00; Friday (10:00 – 13:00 & 14:00 – 17:00)

Time: 12 Hrs. (in two days)

Max. Marks: 50

INSTRUCTIONS TO CANDIDATES:

- The first sitting of 6 hours is continuous, at the end of which the candidate shall submit drawings as indicated. This submission will not be returned to the candidates, so they are advised to keep a copy of the first day's submission.
- No sheets will be allowed to be taken out of or into the examination hall.
- Non- messy snacks are permitted to be taken by students during examination.
- Answers shall be drawn and written on drawing sheets only.
- The medium of presentation pencil, crayon, ink, etc. is left to the choice of the candidate.

DESIGN OF A XEROX SHOP, MIT CAMPUS

Manipal University is planning to design a 'Xerox shop' at MIT Campus. The proposed site of 100 sq.m is located near to the northern side entry of academic block five AB5. The shop is a double user space having functions such as Xerox, storage of documents/files and Waiting space for two people etc.

No.of staff working = 02 (Double user space)

Counter Space = 2 nos

Storage of documents and files

Visitor Waiting = 02

Requirements For The Design Problem Are As Follows:

Sl. No	Description of Spaces					
1.	Total site area	100 sq.m				
2.	Maximum built-up area	20 to 30 % of total site area				
3.	Waiting area	As per design				
4.	Cash counter (02 user)	As per design				
5.	Storage space	As per design				

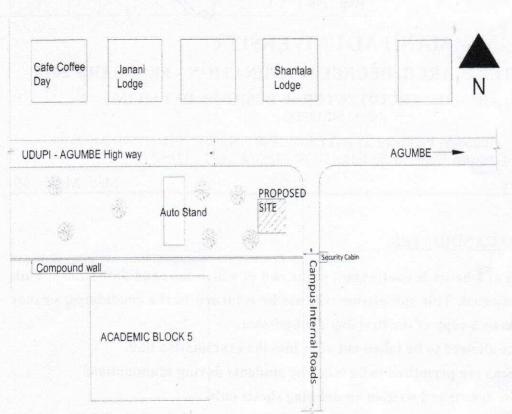


Figure 1: key plan of site

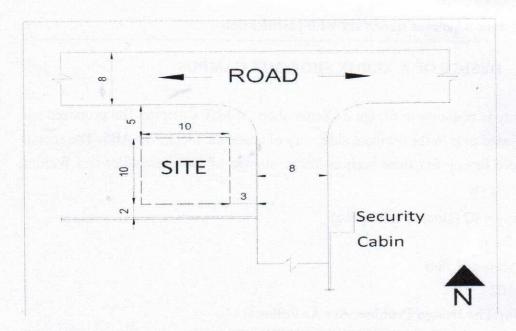


Figure 2: Site plan

NOTE: Site location Plan and Site Detail is not to scale

Minimum Setbacks to be followed:

Front =1.5 m (15% of the depth of site) Right side = 1.0 m (10% of the depth of site)

Rear = 1.0 m (10 % of the depth of site)

Left side =1.0 m (10% of the depth of site)

GUIDELINES FOR DESIGN:

- 1. Design should be barrier free.
- 2. Design shall be equipped to fulfill the light and ventilation requirements of the spaces with more emphasis on natural features.
- 3. Behavioral Science Materials, building components shall be an integral part of design.
- 4. Assume suitable data wherever necessary.
- 5. Use of sketches to explain design schemes with reasons.

Submission schedule is given below:

Day - One Submission:

(Use proportionate sketches to explain design schemes with reasons)

- 1. Site analysis (climatic factors, site zoning)
- 2. Anthropometric study
- 3. Concept
- 4. Design Development

 $(4+5+7\frac{1}{2}+7\frac{1}{2}=24 \text{ marks})$

Day - two submission:

(Following drawing shall be drafted neatly)

- 1. Site Plan
- 2. Detailed Plan with furniture layout
- 3. Sections (minimum 2 nos.)
- 4. Elevations (minimum 1 nos.)
- 5. Interior view (minimum 1 no.) Exterior view (minimum 1 no.)
- 6. Model Development/Final

(4+5+5+3+4+5=26 marks)

Scale to be considered

- a) Site Plan shall be drafted in 1:50.
- b) Detailed Plan, Section and Elevation shall be drafted in 1:20.
- c) Model 1:20

2 62