

MANIPAL ACADEMY OF HIGHER EDUCATION
FIRST SEMESTER B. ARCH. DEGREE EXAMINATION – JAN/FEB 2018
SUBJECT: ARC-14-101 – ARCHITECTURAL DESIGN & DETAILING – I
(2014 SCHEME)

Monday, January 22 and Tuesday, January 23, 2018
(Monday 10:00 – 16:00; Tuesday (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 the general scheme and the plan developed along with the brief on the design concept. The submission will not be returned to the candidate.
- ✍ Major deviations from the design development drawings submitted on the “First Day’s Work” will not be accepted.
- ✍ No sheets will be allowed to be taken out of or into the examination hall.
- ✍ Answer shall be drawn and written on drawing sheets only.
- ✍ Assume suitable data whenever not given and state the same.
- ✍ The medium of presentation – i.e. pencil, crayon, ink, etc. is left to the choice of the candidate.
- ✍ The candidate is allowed to have Non- messy snacks inside the examination hall.

DESIGN A TAILOR SHOP AT MIT MANIPAL

Design a tailor shop at MIT campus. The proposed site is 100sq.m located in front of the MIT Ladies hostel block 11& 12 as shown in fig A.

No. of staff working – 1 No.

DESIGN BRIEF:

Sl.No	Design Requirement	
1	Site Area	100 Sq.M
2	Max. built-up area	30% of the total site area
3	Sewing area	As per design
4	Counter for Cutting as well as Ironing	As per design
5	Storage and Display Area	As per design

Fig A. Key Plan of the Site

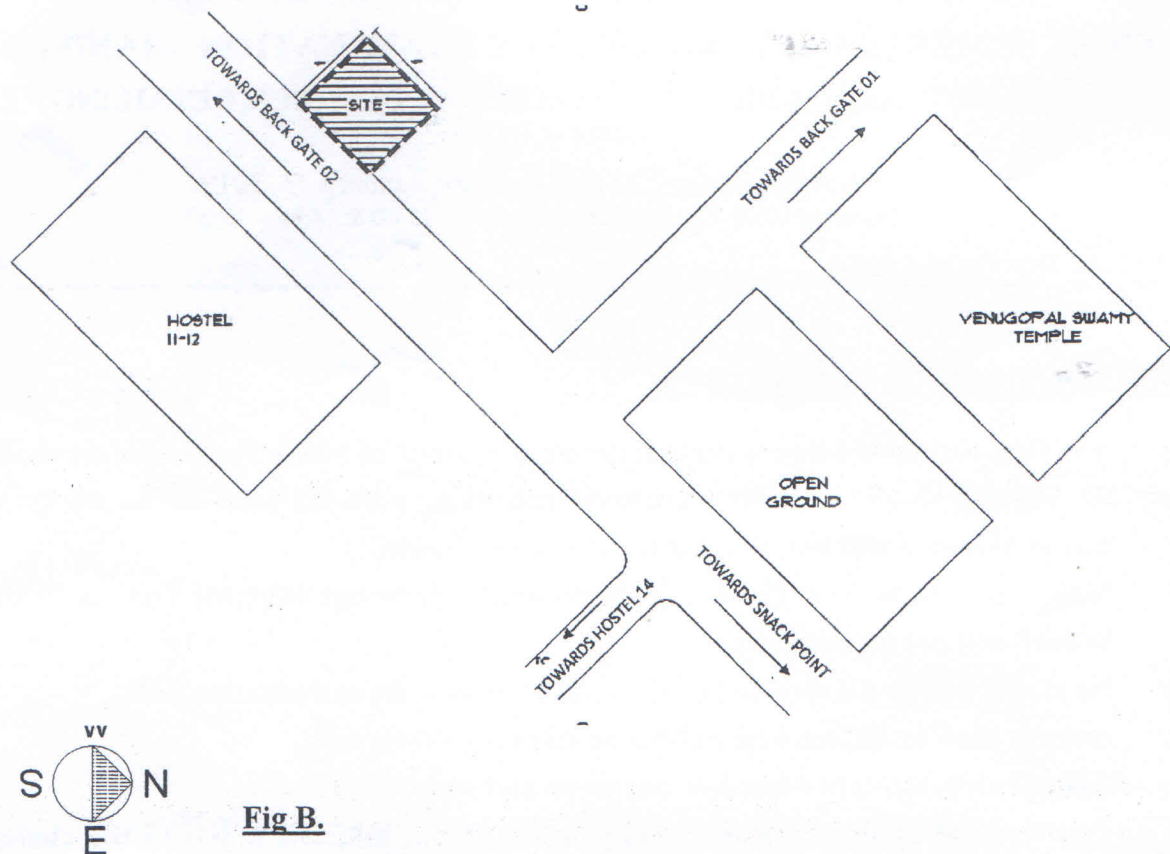
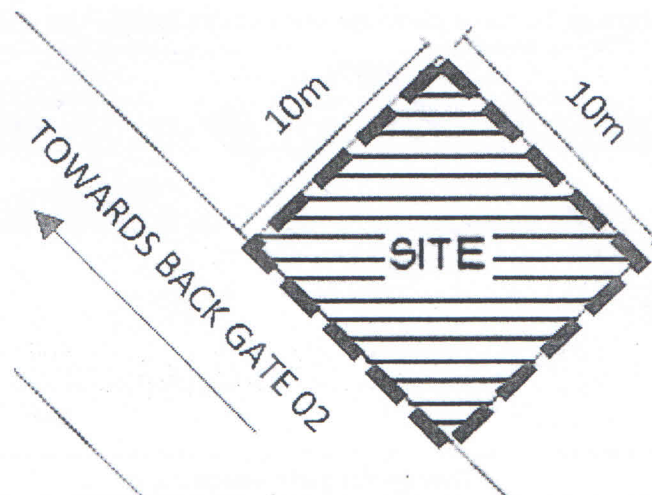


Fig B.



Note: Site/key Plans shown are not to scale

Minimum Setbacks to be followed

- i) Front – 1.0 m (10% of the depth of site)
- ii) Right Side – 1.0m (10% of the depth of Site)
- iii) Rear- 1.0m (10% of the depth of site)
- iv) Left Side-1.0m (10% of the depth of site)

GUIDELINES FOR DESIGN:

- i) Design should be barrier free
- ii) Design shall be equipped to fulfil the lighting and ventilation requirements of the spaces with more emphasis on the natural features
- iii) Behavioural science, material and building components shall be an integral part of design
- iv) Assume suitable data wherever necessary
- v) Use of sketches to explain design scheme with reason

Submission Schedule is as given below:

1) DAY – One Submission Requirements

(Use suitable proportionate sketches to explain design schemes with reasons and analysis.)

Stage 1: Design program

- i) Site Analysis
- ii) Anthropometric study
- iii) Concept
- iv) Design Development

(7½ marks × 4 = 30 marks)

2) DAY – Two Submission Requirements

(Following Drawings should be drafted neatly to required scale.)

Sl. No.	Drawing	Scale
1	Site Plan	1:50
2	Detailed Plan with Furniture Layout	1:20
3	Sections (Minimum 1 Nos.)	1:20
4	Elevation (Minimum 1 No.)	1:20
5	Interior View	
	Exterior View	
6	Model – Development / Final	1:20
		TOTAL

(4+3+3+2+2+2+4 = 20 marks)

