

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**FIRST SEMESTER B. ARCH. DEGREE EXAMINATION – JAN/FEB 2019**  
**SUBJECT: ARC-14-101 – ARCHITECTURAL DESIGN & DETAILING – I**  
**(2014 SCHEME)**

Thursday, January 31, and Friday, February 01, 2019  
 (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 setting 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.
- ✗ Assume suitable data wherever not given and state the same with justification.

## SOUVENIR SHOP AT MIT CAMPUS

A souvenir shop of 50 Sq M area has to be designed near the new entrance of AB-5, MIT campus, Manipal. The shop can be a double user space functioning to sell the souvenirs to the parents who visit the campus, the alumni, guests of the Institute and others. The shop is required to have Cash counter, Display areas and storage space/area/shelves, gift wrap counter. The shop will have mugs, stationery items, bottles, T-shirts, hoodies, sweatshirts, bags, caps and other monogrammed merchandise. The shop needs to have a back entry accessible only by the shopkeeper.

**Requirement:**

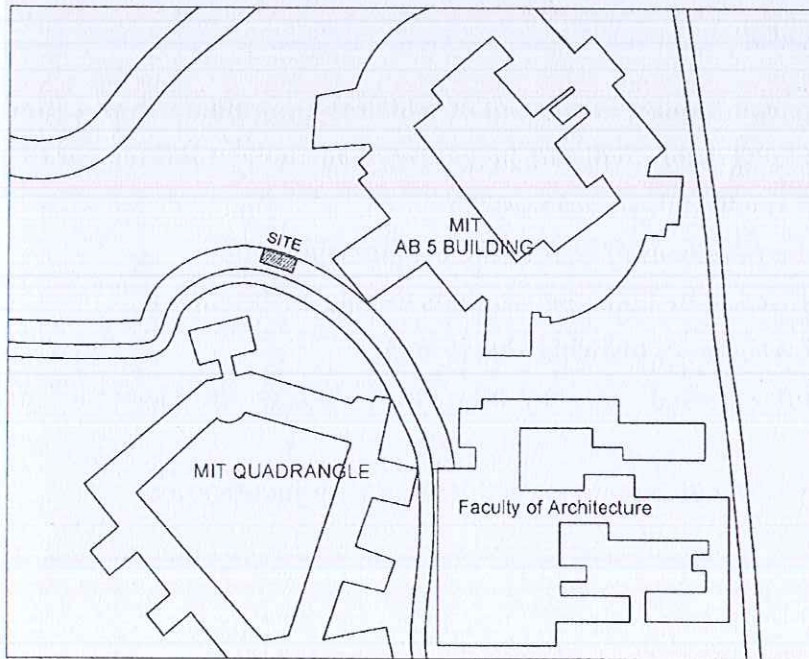
Sl. No	Design Requirement	Area
1	Display area	As per requirement
2	Billing and Cash Counter	One manned space
3	Storage-variety can be there	As per requirement
4	Gift wrap counter	One manned space



### SITE DETAILS:

- a) Total Site Area – 96 sqm
- b) Maximum Built up area – 30 to 50 % of total site area
- c) Serving and Billing counter. As per the requirements of the design
- d) Gift Wrap counter. As per the requirements of the design
- e) Space for 4-6 customers
- f) Aisle space should accommodate one/two people

### LOCATION PLAN and SITE PLAN: (Not to scale)



The allotted site is  $12\text{m} \times 8\text{m} = 96\text{ Sqm}$  of the paved area near the new entrance of AB-5, from which, you are expected choose the required area (Max 50Sqm), for design with proper justification for the chosen location on site. The site has a tree of crown spread – 3.00 m diameter with centre at 2.70 m from the south-west edge and 0.80 m from the west boundary. Consideration of the site context is essential.

#### **GUIDELINES TO BE CONSIDERED FOR PROPOSED DESIGN:**

- a) Design should be barrier-free.
- b) Principles of Design, Behavioral Science, Building Components, Materials and Landscape, shall also be considered.
- c) The design shall be equipped to fulfil the light and ventilation requirement of the spaces.
- d) Choice of suitable Materials, detailing of building components shall be an integral part of the design.
- e) Assume suitable data wherever necessary.
- f) Use of proportionate sketches to explain design schemes with reasons.

#### **Submission Requirements:**

##### **1. DAY –1:**

*(Use proportionate sketches to explain design schemes with reasons)*

- i) Site analysis
- ii) Anthropometry Study
- iii) Concept
- iv) Design Development

$(7\frac{1}{2} \times 4 = 30 \text{ marks})$

##### **2. DAY – 2:**

*(Following drawings shall be sketched proportionately)*

- i) Site Plan
- ii) Detailed plan with furniture layout
- iii) Sections (Minimum 2 Sections)
- iv) Elevations (Minimum 1)
- v) Interior View (Minimum 1 No)
- vi) Exterior View
- vii) Exploratory Model

$(4+3+3+2+2+2+4 = 20 \text{ marks})$





