

MANIPAL UNIVERSITY**FIRST SEMESTER B. ARCH. DEGREE EXAMINATION – NOVEMBER 2017****SUBJECT: ARC-14-101 – ARCHITECTURAL DESIGN & DETAILING – I
(2014 SCHEME)**

Monday, November 06 and Tuesday, November 07, 2017

(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 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.
- ✗ The medium of presentation – pencil, crayon, ink, etc. is left to the choice of the candidate.
- ✗ Assume suitable data wherever necessary with justification.
- ✗ Answers shall be drawn and written on drawing sheets only.
- ✗ Non- messy snacks are permitted to be taken by students during examination.

DESIGN OF A COFFEE SHOP IN MIT CAMPUS

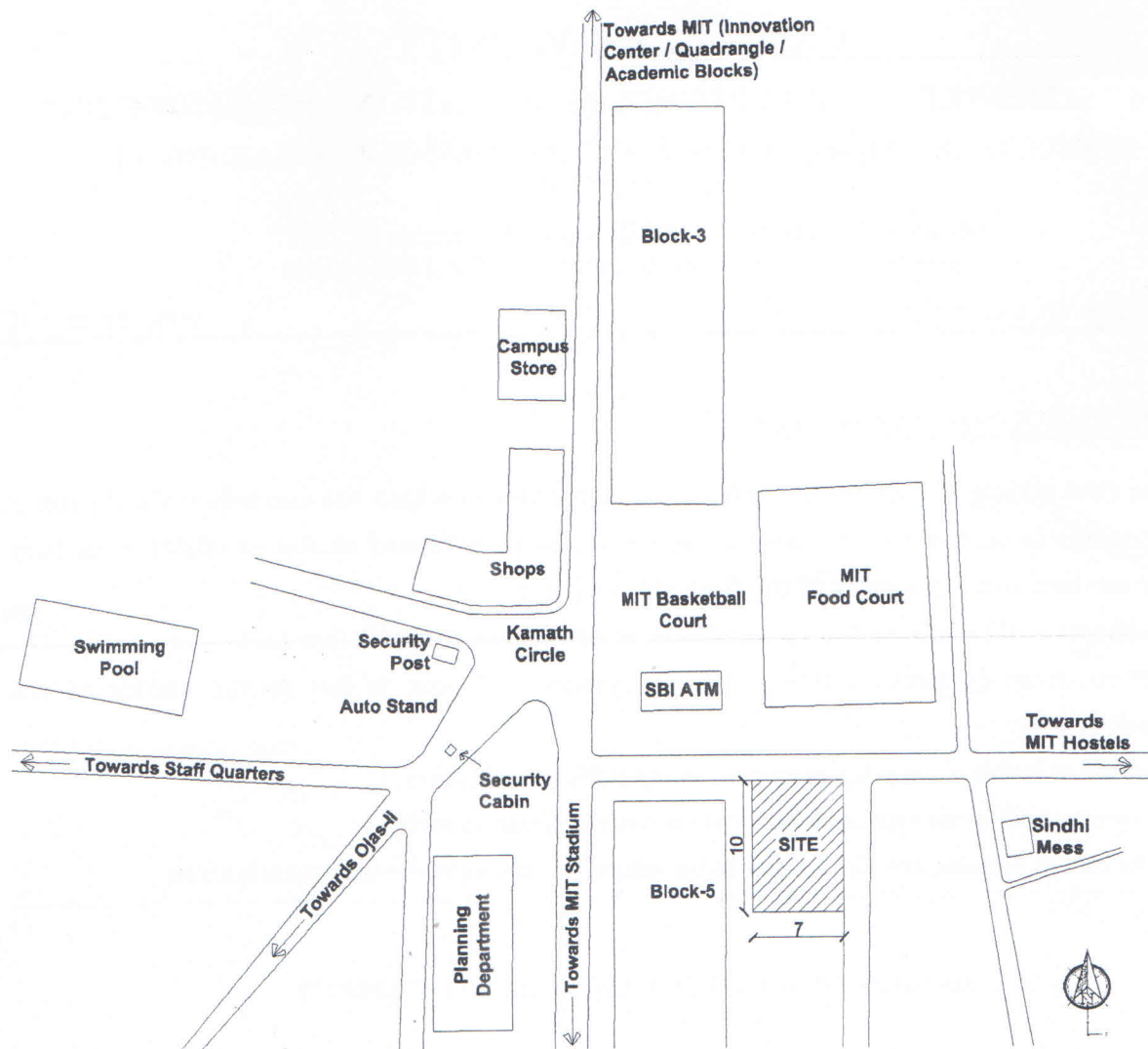
A new 'COFFEE SHOP' has been planned to open in MIT campus. The proposed site of 70 sq. m. area is near Food Court at Kamath Circle. The shop is a single user space having functions such as sale of coffee and snacks, cash counter and preparation as well as storage of these items

REQUIREMENTS FOR THE DESIGN PROBLEM ARE AS FOLLOWS:

Sl.No	Design Requirements	
1.	Display area/ Storage space	As per requirement of coffee shop
2.	Billing & Cash counter	Manned by one person
3.	Preparation space	As per requirement of coffee shop
4.	Informal seating space (outdoor)	6 people

Sl.No	Site Considerations	
1.	Total site area	70 sq.m
2.	Built-up area to be considered	Maximum 30 sq.m
3.	Setbacks to be considered	Minimum 1 m on all sides (Front, Rear, Sides)

SITE LOCATON PLAN(not to scale)



SUBMISSION SCHEDULE IS GIVEN BELOW:

1. Day - One Submission:

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

- Site analysis (climatic factors, site context etc.) and site zoning
- Anthropometrics study
- Concept
- Design Development

$(5+5+7\frac{1}{2}+7\frac{1}{2} = 25 \text{ marks})$

2. Day - Two Submission:

(Following drawing shall be drafted neatly.)

- Site Plan
- Detailed Plan with furniture layout
- Sections (minimum 2 nos.)
- Elevations (minimum 1 no)

- v) Interior view (minimum 1 no.)
Exterior view (minimum 1 no.)

(5+6+6+4+(2+2) = 25 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.

GUIDELINES TO BE CONSIDERED FOR PROPOSED DESIGN:

1. Design should be barrier free.
2. Principles of Design, Behavioral Science, Building components, Materials and Landscape shall also be considered.
3. Design shall be equipped to fulfill the light and ventilation requirements of the spaces.

