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## MANIPAL UNIVERSITY

### THIRD SEMESTER B. ARCH. DEGREE EXAMINATION – NOVEMBER 2015

#### SUBJECT: ARC 201 – ARCHITECTURAL DESIGN AND DETAILING – III (2014 SCHEME)

Monday, November 23 and Tuesday, November 24, 2015  
(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.
- ✍ Answers shall be drawn and written on drawing sheets only.
- ✍ The medium of presentation – i.e. pencil, crayon, ink, etc. is left to the choice of the candidate.
- ✍ Assume suitable data wherever not given and state the same with justification.

#### DESIGN AN OUTDOOR SHOPPING ARCADE AT UDUPI

A shopping arcade is to be designed to enhance the shopping experience of the locals and tourists, with the presence of shops entailing books and stationaries, traditional Indian artifacts, jewelers, handlooms, home wares, retails, etc.

Propose a design for the shopping arcade with a pleasant/ interesting pedestrian experience along with retail, landscaping, open, semi open, enclosed areas, interesting forms etc.

#### **SITE DETAILS**

The site is approximately 0.6 acre property is in a commercial zone.

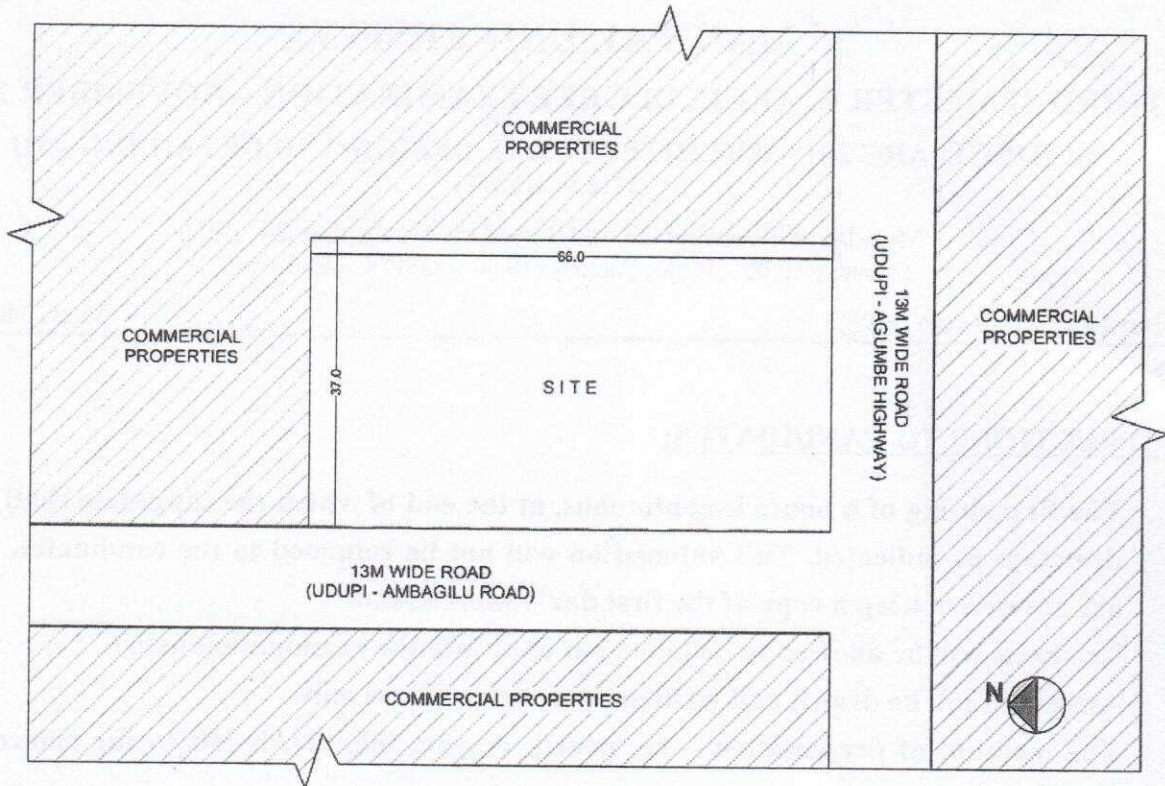
Site Area – 0.6 acres

Height is restricted to 1 floor

Setbacks – 10m from road, 4 m on all other side.



### SITE MAP



### PROJECT REQUIREMENTS (600 sq. m.)

(Areas can be flexible up to 10-15%)

- 15 Shops around 20-30 m<sup>2</sup>/Shop – 400 m<sup>2</sup>  
(With details of minimum 2 Shops)
- Café' / Restaurant (Including Kitchen, Indoors/ Semi-open Seating etc.) – 150 m<sup>2</sup>
- Toilets/ Public amenities (ATM etc.) – 50 m<sup>2</sup>
- Public Sitting/Gathering Areas
- Landscaping
- Adequate Parking Areas

#### Note:

1. Design shall be barrier free.
2. Design shall be equipped to fulfill the light and ventilation requirements of the spaces with emphasis on natural features.
3. Be creative with the form and spaces.
4. Block model using thermocol/white ivory sheets/white foam sheet shall be made at any of the stages 3, 4 or 5.
5. Assume suitable data wherever necessary.
6. Drawing requirements as given should be free hand on graph sheet/rice paper/drawing sheets or any appropriate sheets provided during exam.
7. **Use sketches to explain** design schemes with reasons. Proportionate (In Scale) sketches would suffice. Double lined drafted plans not necessary.



## **SUBMISSION REQUIREMENTS:**

### **A. Day – 1: (Stages – 1, 2 & 3)**

#### **Stage 1: Design Program**

- Users and activities
- Space and area requirement (facilitation, ambience etc.)
- Design issues
- Design guidelines

(5 marks)

#### **Stage 2: Site Analysis and Zoning**

- Context (Accessibility, site surroundings, site features etc.)
- Climate
- Zoning showing major uses and circulation along with reasoning
- Bubble /Proximity diagrams

(10 marks)

#### **Stage 3: Concept Development**

- Project synopsis and statement of concept (related to form, function, structural systems, construction technologies, materials, environment, aesthetics, local influences etc.)
- Sketches showing initial design ideas based on concept
- Form development on-site and built-unbuilt spaces

(10 marks)

**[Stage 1, 2 & 3 can be submitted any time within the six hours of Day -1 and thereby students may start with further stages]**

### **B. Day – 1 & 2: (Stage – 4 & 5)**

#### **Stage 4: Design Development**

- Conceptual design(s)
- Finalization of design with reason for design decisions.
- Refinement of final design

(5 marks)

#### **Stage 5: Design Scheme**

- Master Plan with all details (access, road network, circulations, open and built, parking and other important features (1:200)
- Floor Plans with furniture layout (1:100)
- Prominent Elevation (1:100)
- Detailed major section (1:100)
- Views

(3+5+2+3+2 = 15 marks)

### **Model Submission**

Block models and/or final model using white ivory card sheets/ thermocol/ white foam sheet shall be made at any of the stages 3, 4, or 5

(5 marks)