

**MANIPAL UNIVERSITY****THIRD SEMESTER B. ARCH. DEGREE EXAMINATION – NOVEMBER 2017****SUBJECT: ARC-14-201 – ARCHITECTURAL DESIGN AND DETAILING – III  
(2014 SCHEME)**

Tuesday, November 14 and Wednesday, November 15, 2017  
(Tuesday 10:00 – 16:00; Wednesday (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 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.
- ✍ No 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.

**DESIGN OF HIGHWAY RESTAURANT IN UDUPI**

High way restaurant is the kind of place where guests feel at home and can have a delicious, local food. A small restaurant need to be designed near the Udupi- kundapur highway. The proposed restaurant will serve for various needs of the people who come from long distance, traveling to nearby tourist places. It will act as a resting spot for a while. The site is located beside Udupi-kundapur highway (NH66) next to Hyundai service centre. The functions such as seating, reception, public and staff toilet, and parking need to be given.

**SITE DETAILS:**

The site is approximately 0.5 acre

Height is restricted to G+1 floor

Setbacks: 6 meters all around

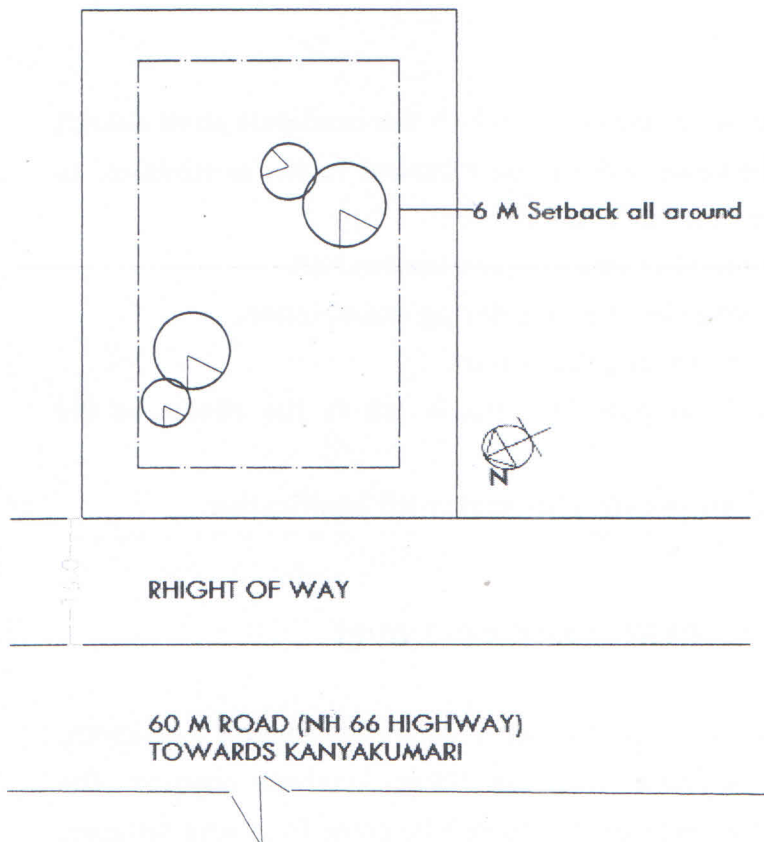
**PROJECT REQUIREMENTS: built up area (400 sq.m) – 40 user**

Area can be flexible up to 10-15%

- Seating/dining space (indoor/semi open seating) - 150 m<sup>2</sup>
- Welcome lobby with reception
- Kitchen space (veg and non-veg preparation area separate) -as per the requirement
- Toilets – public and staff as per standard

- ATM – 1 no.
- Adequate parking area. – as per standards
- Outdoor Landscaped Area.
- Additional requirements can be provided with proper justification.

*Note: Suitably provide for all other requirements such as toilets, parking spaces etc. Assume all other necessary data and state the same.*



#### Site Plan (Not in scale)

##### Note:

1. Existing vegetation should be part of design
2. Design should be barrier free.
3. Design shall be equipped to fulfill the light and ventilation requirements of the spaces with more emphasis on natural features.
4. Block model using thermocol/ivory sheets/white foam sheet shall be made at any of the stages 3, 4, or 5.
5. Assume suitable data wherever necessary.
6. Use of sketches to explain design schemes with reasons.

### **Submission Requirements:**

#### **1. DAY –1: (Stages 1, 2, and 3)**

##### **Stage 1: Design program**

- i) Users and activities
- ii) Space and area requirement
- iii) Design issues
- iv) Design guidelines

(5 marks)

##### **Stage 2: site analysis and Zoning**

- i) Context (accessibility, site surroundings, site features etc)
- ii) Climate analysis
- iii) Zoning showing major uses and circulation along with reasoning.
- iv) Bubble /proximity diagrams

(10 marks)

##### **Stage 3: Concept development**

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

(10 marks)

*(Stage 1, 2 and 3 can be submitted any time within the six of Day – 1 and thereby students may start with further stages)*

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

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

- i) Conceptual Design
- ii) Finalization of Design with reasoning
- iii) Refinement of final design

(5 marks)

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

- i) Master plan with all details (access, road network, circulations, open and built, parking etc.) 1:200
- ii) Floor plans with furniture layout 1:100
- iii) Prominent Elevation 1:100
- iv) Detailed major Sections 1:100
- v) Views

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

##### **Model Submission**

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

(5 marks)

