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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**THIRD SEMESTER B. ARCH. DEGREE EXAMINATION – NOVEMBER 2019**  
**SUBJECT: ARC-14-201 – ARCHITECTURAL DESIGN AND DETAILING – III**  
**(2014 SCHEME)**

Tuesday, November 19 and Wednesday, November 20, 2019  
(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 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.

**DESIGN OF ARCHITECT'S OFFICE IN UDUPI**

Design an architectural office for yourself at Udupi. The office shall become an iconic structure in the context which showcases the Creativity of an Architect. The functionality of the Office and the experience of the users (Clients, junior architects, draftsmen and interns) are to be considered as vital aspects of designing. Office shall have a lively environment which helps to do brainstorming and get creative.

**PROJECT REQUIREMENTS:**

**Built Up Area (Upto 500 Sq.m)**

Total Users- 40 Max

Area can be flexible up to 10-15%

- Reception
- Waiting area
- Chief Architect's cabin (1 No.)
- Senior Architects' workspace (2 No.s)
- Junior Architects' workspace (4 No.s)
- Interns workspace (4 No.s)
- Conference room (12 users)

- Client's meeting room (5 users)
- Printer and model making space
- Architects' relax lounge
- Studio Library space
- Store room and record room
- Toilets – male and female
- Pantry and Coffee kiosk
- Adequate parking area
- Additional requirement can be provided with proper justification

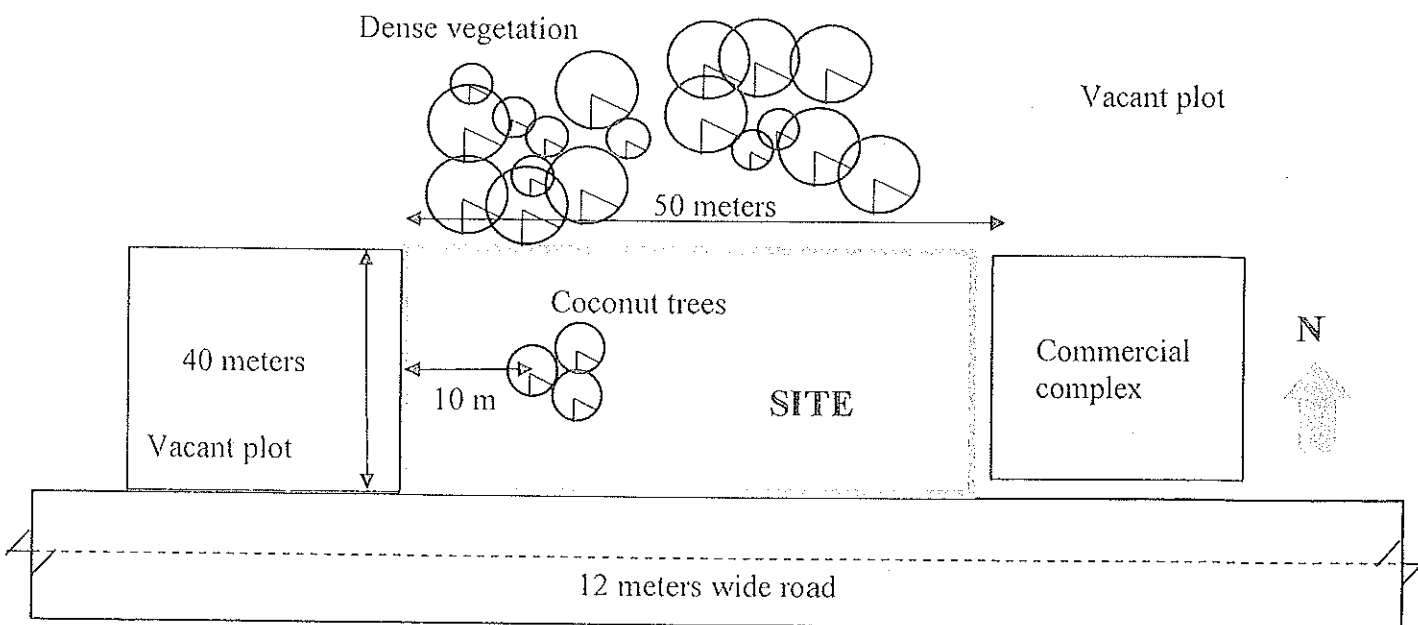
## SITE DETAILS

Total site area – 2000 Sq.M.

Height restriction – G+1 Floor

Maximum permissible ground coverage - 50%

Setbacks from the property boundary- **Front:** 8.0 m; **Sides:** 6.0 m; **Rear:** 6.0 m



Note: Assume all other necessary data and state the same.

- Design should be barrier free.
- Design shall be equipped to fulfill the light and ventilation requirements of the spaces with more emphasis on natural features.
- Assume suitable data wherever necessary and mention the same.
- Use of sketches to explain design schemes with reasons.

## SUBMISSION REQUIREMENTS:

### 1. DAY –1: (Stages 1, 2, and 3)

#### Stage 1: Design program

- Users and activities
- 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 hrs of Day – 1 and thereby students may start with further stages)

**2. Day 2: (Stage – 4 and 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 ivory sheets/card boards shall be made at any of the stages 3, 4, or 5.

(5 marks)



