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MANIPAL ACADEMY OF HIGHER EDUCATION
THIRD SEMESTER B. ARCH. DEGREE EXAMINATION – JANUARY 2020
SUBJECT: ARC-14-201 – ARCHITECTURAL DESIGN AND DETAILING – III
(2014 SCHEME)

Thursday, January 02 and Friday, January 03, 2020
 (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 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 LIBRARY FOR SENIOR CITIZENS AT MANIPAL

The Senior Citizen Society and Manipal Lake Development Authority have come up with a project of constructing a Library for senior citizens at the Manipal lake premises. The objective of this project is to provide a very cheerful and comfortable environment for the senior residents of the surroundings and create a healthy social environment.

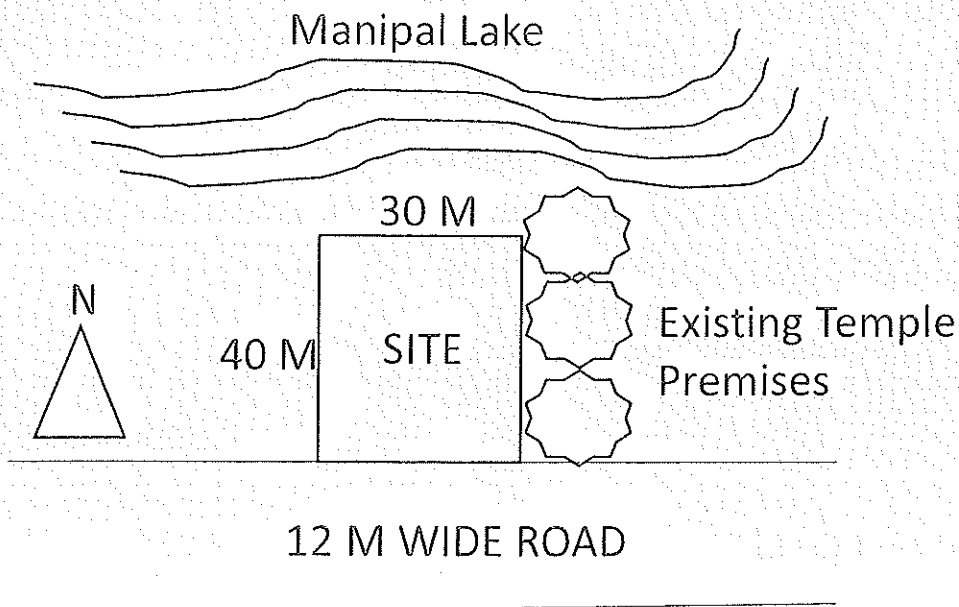
SITE DETAILS:

The site is abutting the existing Temple on east with 12 meter road access from the south. The site is rectangular- (40m × 30m) with shorter side facing the lake on North. Side and rear set backs are 3m and front setback 6m. There is a thick tree canopy forming buffer between the site and temple premise.

Maximum Plot Coverage – 50%

Height restriction – G+1 Floor

Total Built up Area not exceeding 400 Sq.M



PROJECT REQUIREMENTS:

Area can be flexible up to 10-15%

- Librarian cabin – 15 Sq.M
- Admin area - 30 Sq.M
- Supporting activity area – 30 Sq.M
- Newspaper and magazine section – 10 people - 25 Sq.M
- Reading section – 10 people - 30 Sq.M
- Stacking section for books - 40 Sq.M
- Audio visual room – 20 people - 40 Sq.M
- Cubicles – 2 no.s -14 Sq.M
- Digital reading with 2 desktops - Calculate
- Group discussion room – 10 people – 20 Sq.M
- Storage -10 Sq.M
- Support staff area – 15 Sq.M
- Café with coffee vending machine and dry snacks - Calculate
- Lounge -10 people -Calculate
- Adequate Toilets -Calculate
- Adequate parking area. – as per standards
- Additional requirements can be provided with proper justification.

Note:

- a) Design should be barrier free.
- b) Design shall be equipped to fulfill the light and ventilation requirements of the spaces with more emphasis on natural features.
- c) Assume suitable data wherever necessary.
- d) Use 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 hrs of Day – 1 and thereby students may start with further stages)

2. DAY 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 ivory sheets/card boards shall be made at any of the stages 3, 4, or 5.

(5 marks)



