Sub Code: RAR301/ NAR301

Paper Id: 181301 Roll No: | | | | | | | | | | | | |

B.ARCH.
(SEM-III) THEORY EXAMINATION 2019-20
ARCHITECTURAL DESIGN - III

Time: 07 Hours ***Total Marks: 75***

Note: *1. Attempt all Sections. Assume suitable data wherever necessary & mention the same.*
2. Two Butter sheets to be provided for sketch work. Final work should be composed on 3-4 cartridge sheets.
3. The drawings should be self-explanatory in all aspects mentioned. Use Appropriate Scale.
4. The orientation of all the plans/layout must be maintained.

SECTION A

"COUNTRY CLUB FOR WINDMILL OWNERS' ASSOCIATION"

Preamble :-

In past one decade, with growing concern for energy consumption alternative energy sources are becoming fast popular with solar and wind energy taking center stage. With growing incentives from Government, Installing, maintaining wind mills is fast trend in corporate, individuals and other organizations. Sahyadri ranges in Satara district have witnessed a surge in windmill development.

The wind mill owners in this belt of Satara-Patan have come together and have formed association which has purchased a plot (admeasuring **0.68 hectare**) on the plateau overlooking the Koyana Backwaters, to develop a country club for the members. The plot has scenic surroundings and a pleasant weather throughout the year. You are to design the Country club and present the same in form of drawings prescribed hereunder.

Design Parameters:-

- As the association is founded on philosophy of sustainable development, the Design should be address to this issue of green architecture and be energy conscious.
- The local conditions and climate has to be considered while designing.
- The site is almost flat with a gentle slope on west side and can be practically treated as flat land.

Design Programme:-

Description	*Carpet area*
1) **Reception & waiting lounge,** With drop in porch for the members.	**100.00 Sq. M**
2) **Administration hack office :**	
a) Estate Manager' cabin with attached toilet	**20.00 Sq. M.**
b) Club manager's cabin with attached toilet	**25.00 Sq. M.**
c) Accounts and Clerical staff (Six persons)	**50.00 Sq. M.**
d) A small meeting room for Eight persons	**15.00 Sq. M.**
e) Pantry, store and staff Toilet (1 WC, 1WB each for ladies and Gents)	**As per Deign**
3) **Restaurant** with spacious seating to accommodate 60 persons along with a Bar Counter & space for Live orchestra.	**100.00 Sq. M.**
	100.00 Sq. M.

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4) **Kitchen** for the restaurant and cafeteria including following:- **120.00 Sq. M.**
Veg/Non-Veg cooking areas Dry store, Cold storage,
Small room for manager Preparation areas

5) **A small cafeteria** for 20 Person **30.00 Sq. M.**

6) **Recreational areas:-**

a) A cards room with to accommodate six to eight groups of four to six each **80.00 Sq. M.**

b) A pool table lounge with two pool table and seats for visitors (take pool table size as 2.44 M × 1.22 M.) **60.00 Sq. M.**

c) A table tennis room with Two TT table. (TT table size as 2.74 M × 1.52 M.) **70.00 Sq. M.**

d) A small Library on with reading area for 20 persons with a small store. **40.00 Sq. M.**

e) A small Gymnasium with steam, sauna and Locker + changing rooms (2 Showers + 1 WC + 2 W Basins each for Ladies & Gents) **100.00 Sq. M.**

7) **A small hanquet hall** for small gatherings/functions for 80 persons with A/V facilities. **150.00 Sq. M.**

8) **Residential Facility:-**
Guest rooms for members, twin sharing (two single beds) with attached toilet. **200 Sq. M.**
Eight rooms with a small common lounge/lobby **8 x 25 Sq. M.**
Common Lobby / Lounge **50.00 Sq. M.**

9) **Support areas:-**

a) Common washrooms for members at suitable location (should be distributed according to individual planning)
Ladies: - 6 WCs, 6 W. Basins,
Gents: - 4 WCs, 8 Urinals, 6 W. Basins

b) Electrical Panel room, HVAC room 10.00 Sq. M. each

c) Stores as per requirement.

10) Circulation spaces, stairways, ramps etc. as per design

11) Parking **(20 Cars, 01 Bus, 10 Two-wheelers)**

Site parameters

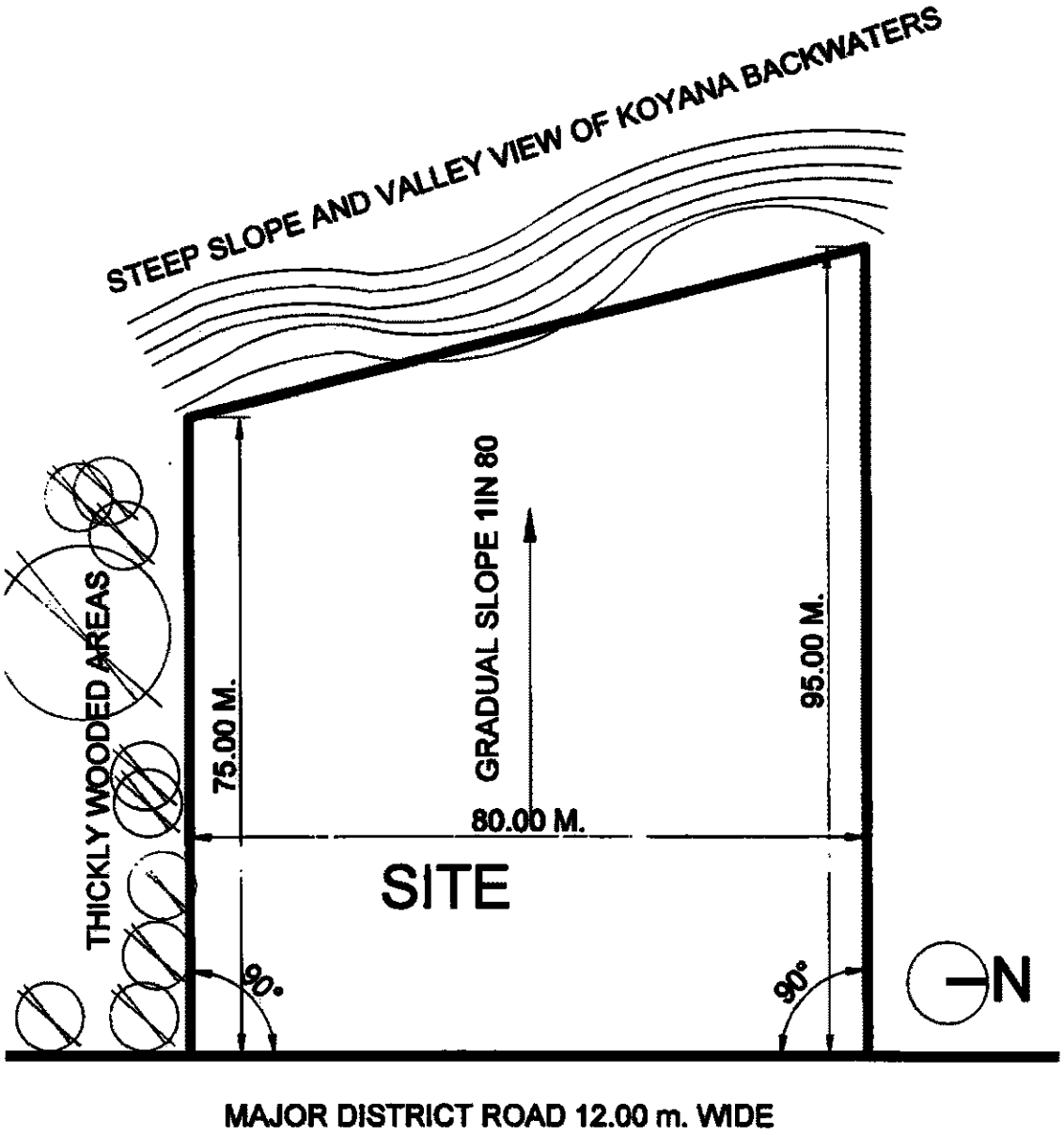
i) Mandatory setbacks from road side = **9.00 M**, from all other sides = **6.0M**.
ii) Permissible height: **9.00 M.**
iii) Maximum ground coverage **35%** of the plot area
iv) Site experiences heavy rain fall throughout the monsoon (June to September) Prevalent winds are S-W in Monsoons, N and N-E in rest of the year. You may combine or separate some of the spaces/function as per your design without compromising on the function/s

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FINAL DRAWING REQUIREMENTS:

Q.1	Site plan with roof and all the site features such as landscape elements, Parking, gate, driveways, pathways, etc.	**15**
Q.2	Site section	**05**
Q.3	All the floor plans with correet wall thicknesses, openings, levels etc.	**30**
Q.4	One Building Section	**10**
Q.5	One Building Elevations	**10**
Q.6	View (Perspective or proportionate sketch)	**05**



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