

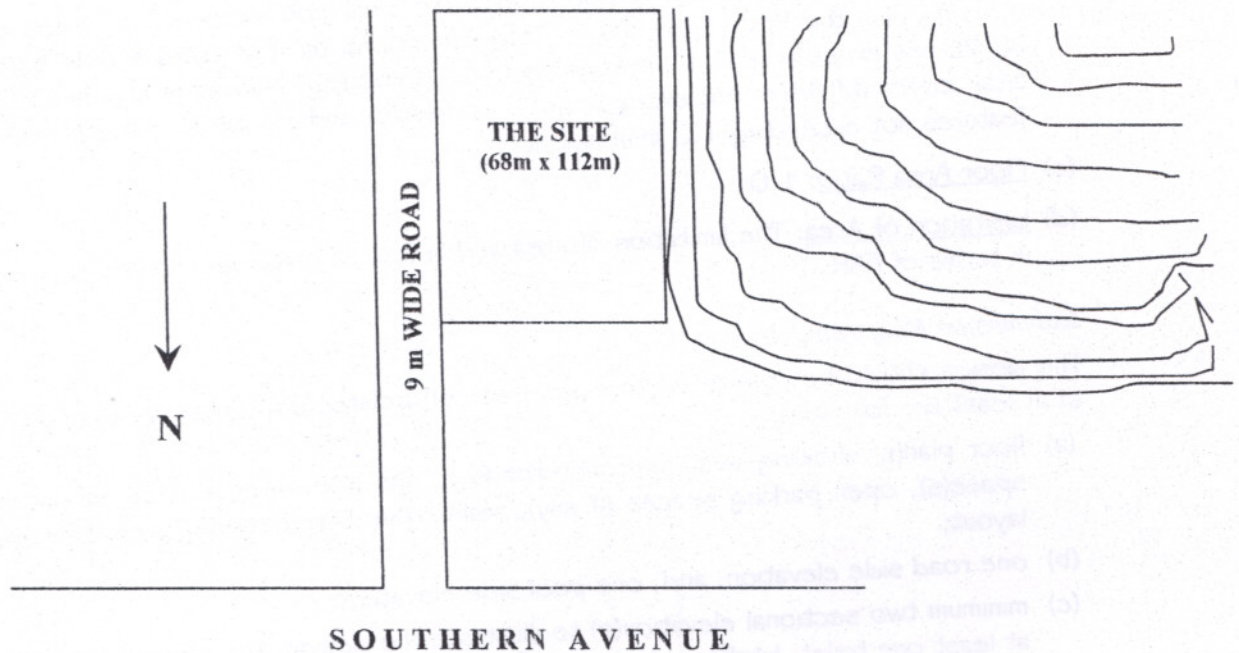
ARCHITECTURAL DESIGN – II (AR – 404)

Time Allowed: 6 hours

Full Marks: 70

The students are allowed to consult the Time-Saver Standards during the Examination.

The authorities of a prestigious Swimming Club situated at the South Calcutta Dhakuria Lake have decided to undertake full overhauling of their Club House along with that of the Learners' Pools and



Competition Pool. The Club owns a plot measuring 112m x 68m. The wider side of the site is abutted by a 9m wide road running in north-south direction. The Dhakuria Lake is on the other side of the site towards west.

Space Requirements —

For Club House

- (i) Reception and Office for six staff;
- (ii) Eatery with seating facility of 60 persons along with a bar, pantry, kitchen, stores, wash etc.;
- (iii) Games Room(s) providing facilities for playing cards by 20 persons, 2 billiard tables and 2 table tennis boards;
- (iv) One hall for 100 persons, along with pantry, stores, wash etc.;
- (v) 2 double bed rooms and 4 single bed rooms each provided with attached toilets;
- (vi) Requisite service facilities.

For Swimming

- (i) 2 learner's swimming pools, each of 20m length with 4 lanes, for men and women with adequate changing facilities;
- (ii) 1 competition swimming pool of 8 lanes with adequate changing facilities;
- (iii) Requisite service facilities for the pools.

Any other space may be assumed as will be deemed necessary. While evolving the design, the site analysis is to be done considering 'location', 'orientation', 'access' and 'parking'.

*Please turn over*

*Development Control Rules —*

- (a) Open Spaces: The open spaces at front shall be not less than 12m and the other open spaces around the building shall be not less than 6 m.
- (b) Height Limit: The maximum height of building shall not exceed 1.5 times the width of road abutting plus the front open space, with exceptions to roof tanks & their support (with support height not exceeding 1 m.), ventilating, air-conditioning, lift-rooms and similar service equipment, Stair cover (MUMTY) not exceeding 3 m in height, and chimneys, parapet walls and architectural features not exceeding 1.2 m in height.
- (c) Floor Area Ratio: 1.0
- (d) Limitation of Area: The limitation of area and height of buildings shall be achieved by specifying it in terms of FAR.

*Submission Requirements —*

The design should be presented through a set of architectural drawings in 1 : 200 scale consisting of at least the following:—

- (a) floor plan(s) showing site, approach roads to the site, internal road approaching the designed space(s), open parking spaces (if any), planting and landscaping (wherever applicable), furniture layout; 30
- (b) one road side elevation, and, one pool side elevation; 20
- (c) minimum two sectional elevation(s) to illustrate the design, the section lines should pass through at least one toilet, kitchen, staircase block, lift and dumb waiter, whichever provided. 20

