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**B.ARCH. (PART-III) EXAMINATION: 2009  
FIFTH SEMESTER**

**SUB: ARCHITECTURAL DESIGN - III (AR-503)**

**MARKS: 100**

**TIMES: 12 HRS.**

**BRANCH: ARCHITECTURE, T&RP**

**PROBLEM: DESIGN OF A MARINE AQUARIUM AT DIGHA**

You are required to prepare a sketch design of a Marine Aquarium at Digha. The project will be sponsored by a development organization and private agency. The basic objective of the organization is to make the students and people aware of different marine habitat and behaviour of marine environment. Second purpose is to promote tourism and attracting visitors' interest to this tourist place. It will be a public aquarium and a part of the maintenance fee will be realized from each visitors.

The site is located at Digha sea beach over a plot of land measuring about 100x60 m facing sea side, considering the access road parallel to 100 m side.

Approximate Area Requirement:

- Exhibit tank spaces
  - 4 tanks of 10 m<sup>3</sup> capacity each
  - Holding tank = 50 sqm
  - quarantine tank = 20 sqm
  - Treatment room = 20 sqm
  - Circulation area (as required)
- Public visiting place, circulation and display area
  - Reception = 20 sqm
  - Information booth = 10 sqm
  - Ticket counter = 10 sqm
  - Security room = 15 sqm
  - Lounge = 40 sqm
  - Locker room = 10 sqm
  - Adequate male & female toilet for 200 visitors at a time in the aquarium
  - Circulation spaces (as required)
- Commercial area - 3 retail shops for aquarium accessories = 15 sqm each
- Restaurant for visitors = 75 people capacity
- Kitchen and service area
- Administrative area = 50 sqm
- Adequate parking space = 20 cars

Assume any other areas if you feel necessary

Drawing Requirement:

- Site Plan = 1:400 scale
- All Plans = 1:200 scale
- Two sectional elevation showing the structural arrangement, height = 1:200 scale
- One 3-D sketch view depicting elevation, form and material used
- Any other detail to explain your scheme

**Credit shall be given for innovative form and functional integration and structural reality.**

