



**PAU-6503**

Seat No. \_\_\_\_\_

**B. Arch. (Sem. V) Examination**  
**October / November - 2018**  
**Building Material & Construction - V**  
**(Building Construction)**

Time : 4 Hours]

[Total Marks : 80

Government of Gujarat has decided to upgrade all sea-shores of the state suffering with inferior quality of infra-structure.

'Madhavpur' is one of such sea-shore need to be developed as tourist-spot by enhancing its existing condition, in order to cater optimum tourists-inflow.

The concerned department is willing to construct an 'Observatory cabin for rescue personals' facing sea-shore to ensure maximum user's safety and security.

The envisaged cabin already has ground anchorages having RCC friction pile as foundation and 'I' section (150x100x5mm, 1000mm elevated from ground for further development) as main steel-column, encased by Gunnamite Polymer Concrete for protection against corrosion.

The said cabin spanning 3000 x 3000 mm shall have space for changing, tool/equipment storage, first-aid attendance along with sea-shore facing viewing gallery.

Give your proposal with Brief (explaining material selection), Neat sketches (elaborating structural configuration) and Construction details.

**Note :**

- Material selection should be in context of BMC-V.
- Submission requirements (plan/elevation/sections/joinery details etc. in appropriate scale...
- Floor and cantilever gallery structure with essential details
- Walling and paneling structure with essential details
- Roofing and covering skin structure with essential details
- Stair/ladder structure with essential details