



DAQ-161001010603

Seat No. _____

B. Arch. End of Term (Sem. VI) Examination

May - 2022

Professional Practice-I

Time : 2 Hours]

[Total Marks : 50

- Instructions :** (1) Make suitable assumption wherever necessary.
(2) Figure to the right indicate full marks.

- 1 Prepare a Rough-cost Estimate based on unit costs of per unit plinth area basis of a four storied residential building having a total carpet area of 2500 sq. mt. for obtaining the administrative approval of the Government. It may be assumed that the corridors, verandas, lavatories, staircase, etc. will take 25% of the built up area and 10% of built up area will be occupied by walls. The following data are given as below : 10
- Plinth area rate = Rs. 23,000.00/sq. mt.
 - Extra for special architectural treatment = 0.5% of the building cost.
 - Extra for water supply and sanitary installations = 6% of the building cost
 - Extra for internal installations = 12% of the building cost
 - Extra for electric services = 4.75% of building cost
 - Extra for gas services = 4% of building cost
 - Contingencies = 3% over all cost
 - Design charges = 2.75% over all cost
- 2 (a) Work out rate analyses for M-15 cement concrete for foundation. 5
- (b) Write detailed specification for cement concrete M-25 for R.C.C. beam. 5

OR

- (b) Write specifications for below materials (any one) 5
- (i) Sand (ii) Bricks

- 3 Describe what is tender ? List down various types of tender and explain any two types of tender in detail. 10

OR

Describe what is tender ? Explain various methods of calling tender. 10

- 4 Select corresponding part of CGDCR. 5

- (a) Under which part of the CGDCR Drawing sizes and approval related guidelines are defined ?

Part I Part II Part III

- (b) Under which part of the CGDCR guidelines related to building performance, environmental management is defined ?

Part I Part II Part III

- (c) Under which part of the CGDCR front open space, side and rear margins are defined ?

Part I Part II Part III

- (d) Under which part the CGDCR definition of building unit is defined ?

Part I Part II Part III

- (e) Under which part of the CGDCR margin from the electrical lines, 5% discount in chargeable FSI in case of energy efficient building is defined ?

Part I Part II Part III

- 5 The plot is located in the Town Planning Scheme prepared by Rajkot Urban Development Authority (RUDA) admeasuring 1,200 sqm and abutting 9.25 M wide road. Please answers the following question in Yes or No. 5

- (a) Does land owner require to provide 40% of the plot area as per regulation no. '6.17.4 Contribution of land for any Development in Non-TP Areas', while obtaining the permission ?

Yes / No

- (b) Does owner require to deduct common plot as per the regulation no 6.17.5 ?
Yes / No
- (c) As per the DP remarks, said plot is under Residential Zone. The front open Space required as per the Regulation 6.7.1 is 3.0 M. Can owner construct two story shopping arcade without providing additional margins ?
Yes / No
- (d) Can owner construct a residential house of 15 M building height ?
Yes / No
- (e) Will 2.5 m rear and side margin be appropriate as per regulation 6.7.2 for the use classification DW2 and Building height upto 9 m ?
Yes / No

6 Write brief note (any two)

10

- (a) Bill of Quantities (BOQ)
- (b) Center line method of estimate
- (c) Importance of the margin and building height regulation
- (d) Brief note on Floor Space Index along with permissible FSI, Chargeable FSI, Maximum Permissible FSI, Total Utilized FSI.
-