Seat No. _____

HAD-161001010603

B. Architecture (Sem. VI) Examination

May - 2023

Professional Practice-I

Time : **2** Hours / Total Marks : **50**

Instructions : (1) Answer all questions.
(2) Make suitable assumption wherever necessary.
(3) Figures to the right indicate full marks.
(4) Calculator is permitted.

1 (a) Work out rate analyses for providing and laying T.M.T. Fe 550D steel reinforcement. **5**

(b) Write detailed specification for cement concrete M-20 (1:1.5:3) **5**

OR

(b) Write specifications for below materials. **5**
(i) Sand (ii) Water

2 Select corresponding part of CGDCR : **10**

(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 front open space, side and rear margins are defined?
Part I Part II Part III

(c) 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

(d) What should be the minimum width of a staircase exclusive of the parapet and floor-mounted railing, for a High-rise residential building as per regulation no 13.1.13 of CGDCR 2017?
1.5 M 1.8 M 2.0 M

(e) Which one of the following is correct in the context to provide passenger lifts for residential (dwelling) purposes?

(i) No lift is required for building heights up to 15 m.

(ii) Minimum 2 or 1 lift per thirty dwelling units (excluding dewelling units on ground level and two upper floors or Hollow-plinth and two upper floors)

(iii) Irrespective of building height, minimum 1 lift for DW-1 and DW-2 type buildings shall be provided.

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

4 Write brief notes : (any two) **10**

(1) Types of Estimates

(2) Brief note on Floor Space Index along with permissible FSI, chargeable FSI, maximum permissible FSI, total utilized FSI.

(3) Explain various types of tender.

5 The plan & cross section of foundation wall of the two roomed building is shown in figure. Calculate the quantity of earth work in excavation, quantity of concrete & brickwork in foundation & plinth by long wall and short wall method. Also prepare BOQ sheet. **10**