12225

15116

3 Hours / 100 Marks   Seat No. ☐☐☐☐☐☐☐☐

Instructions – (1) All Questions are *Compulsory*.

(2) Answer each next main Question on a new page.

(3) Illustrate your answers with neat sketches wherever necessary.

(4) Figures to the right indicate full marks.

(5) Assume suitable data, if necessary.

(6) Use of Non-programmable Electronic Pocket Calculator is permissible.

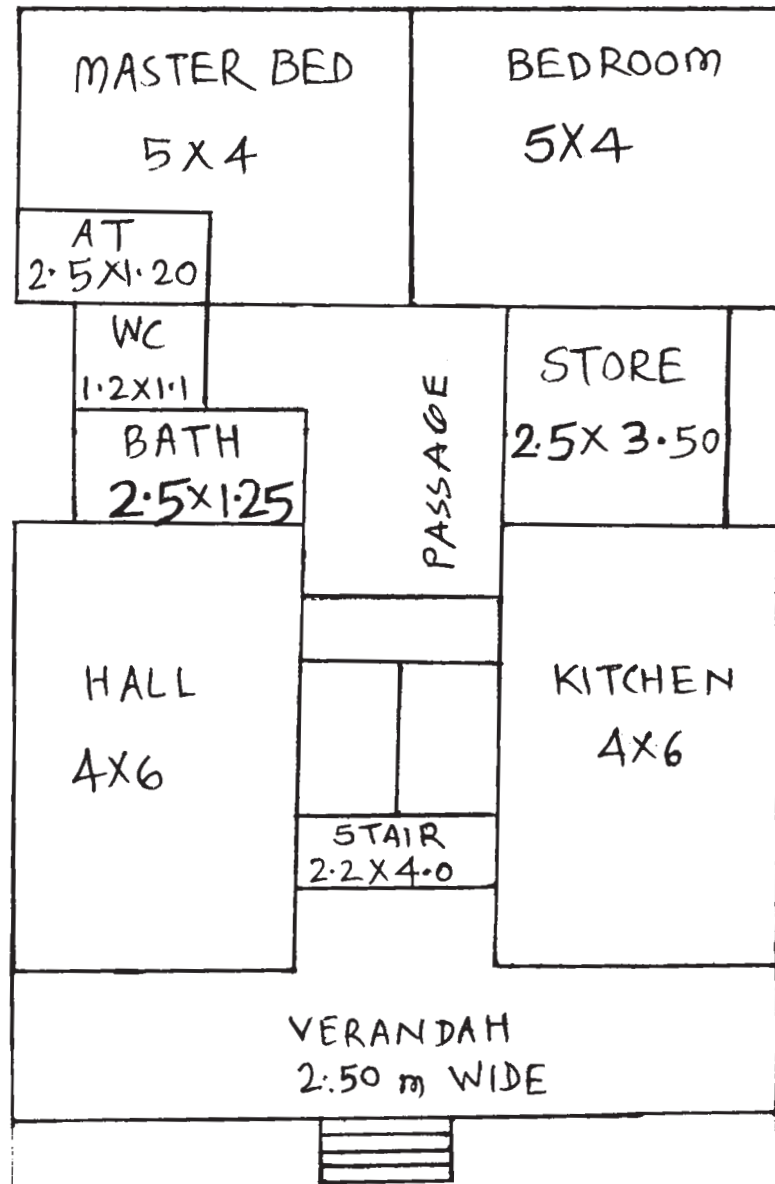(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. **Attempt any FIVE of the following:**   **20**

a) State any four building bye laws with their any one application.

b) Draw architectural symbol for following

(i) Bed

(ii) Kitchen sink

(iii) Glass

(iv) GL

c) State basic principles of landscaping.

d) State importance of colour as art element.

e) Explain necessity of space patterns in designing of building.

f) Explain circulation space required as per standard size of furniture.

g) Elaborate use of space in planning of small commercial building.

2.   **Attempt the following:**   **40**

A line plan of RCC framed structure is given in Figure No. 1 with following data.

* All diamentions are in meter
* Plinth level 75 cm.

Fig. No. 1

Marks

a) Depth of foundation -   1.6 m below GL

b) Height of plinth -   0.60 m above GL

c) External wall thk. -   0.23 m

d) Internal wall thk. -   0.115 m

e) Slab thk. -   0.12 m

f) Clear height of the room 3.00 m

g) Assume suitable data if necessary.

h) Draw the following

  (i) Developed plan   10

  (ii) Front elevation   8

  (iii) Section through WC and bath   10

OR

  (iii) Section through staircase   10

  (iv) Site plan   4

  (v) Schedule of opening   4

  (vi) Area Calculation   4

OR

  (vi) FSI Calculation   4

3. **Attempt any THREE of the following:**   24

  a) Draw details of Architects table of size 2.45 m × 0.75 m × 1.20 m height, assume suitable data.

  b) Draw furniture layout of a cabin of school principle having size of cabin 4.5 m × 6.5 m.

  c) Draw interior layout of furniture arrangement for bedroom and give their sizes of furniture used.

  d) Draw furniture arrangement for interior designer office having carpet area 25 m^2.

  e) Draw furniture arrangement for guest bedroom with sizes of furniture used.

Marks

4. **Attempt any <u>FOUR</u> of the following:** 16

    a) Explain importance of scale in design of building.

    b) Explain the difference between hard and soft landscape.

    c) Explain elements of landscaping.

    d) State the standard sizes of furniture used for office reception area.

    e) Explain "Anthropometry" with respect to circulation.

    f) State the importance of Architectural symbols.

    g) Draw interior details of mobile phone shop.

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