

12225

15116

3 Hours / 100 Marks

Seat No.

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- 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.

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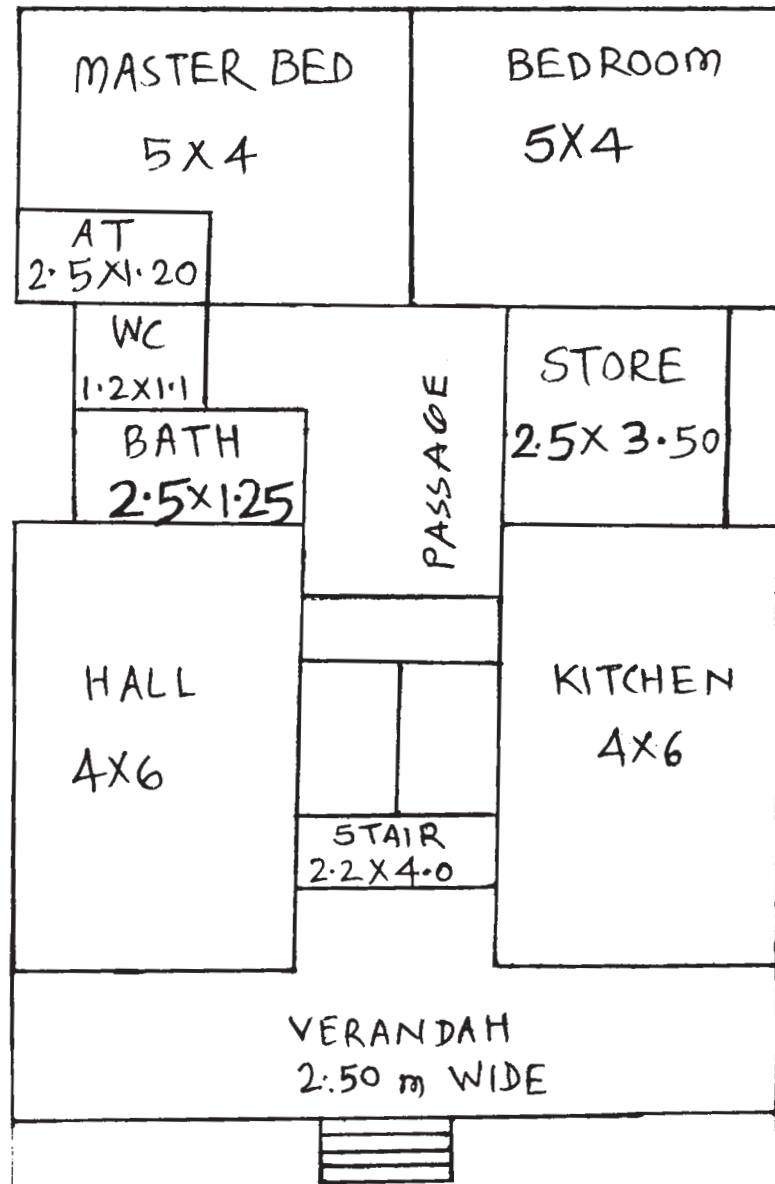
[2]

Marks

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 75cm.

Fig. No. 1

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- 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 m².
- e) Draw furniture arrangement for guest bedroom with sizes of furniture used.

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Marks

16

4. Attempt any FOUR of the following:

- 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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