

22405

24225

4 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.
 - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any **THREE** of the following :

3 × 4 = 12

- (a) Draw Graphical symbols for :
 - (i) Timber
 - (ii) Bath Tub
 - (iii) Brick Masonry
 - (iv) Glass
- (b) Define circulation and roominess with respect to principles of planning.
- (c) Draw sketches of
 - (i) Section line
 - (ii) Hidden line
 - (iii) Long break line
 - (iv) Extension line
- (d) What is the importance of Site Plan ?
- (e) Define : Station Point and Vanishing Point.

2. Draw to suitable scale the line plan of Primary Health Care Centre showing important units. Show all dimensions and label the units.

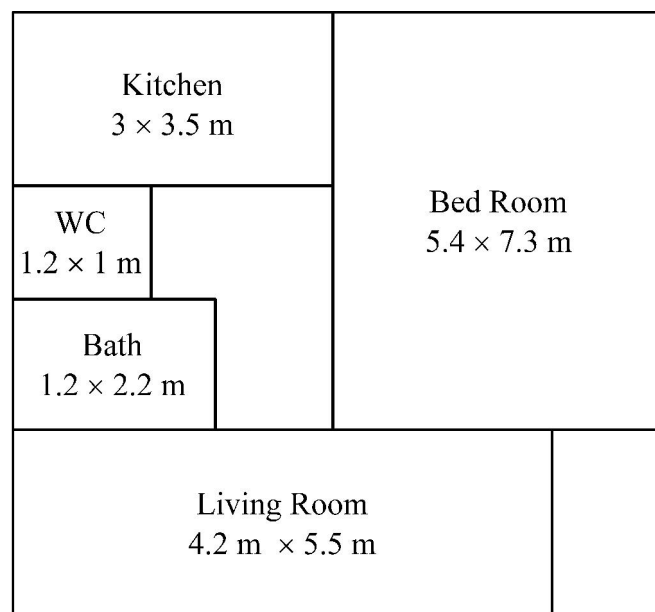
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3. Figure No. 1 shows line plan of residential building. Draw developed plan with scale of 1 : 50. Show all dimensions and show positions of doors and window. 12

Data :

- (i) Superstructure – B.B. masonry having wall thickness 300 mm
- (ii) Plinth height – 600 mm
- (iii) Sill height for windows – 900 mm
- (iv) Lintel height – 2.1 m
- (v) Slab height – 3 m



(Line Plan of Residential Building)
(Not to Scale)

Figure No. – 1

4. Attempt any TWO of the following :

2 × 6 = 12

- (a) Draw front elevation for the building shown in Fig. No-1.
- (b) Define Built up area, Carpet area and F.S.I.
- (c) Draw longitudinal section of RCC lintel beam of length 1.5 m.

5. Attempt any TWO of the following :

2 × 6 = 12

- (a) Explain following principles of planning :
- (i) Orientation (ii) Prospect (iii) Circulation
- (b) Write any four purposes of construction notes and write any two general construction notes.
- (c) Write schedule of openings for plan prepared in Q. 3 (Fig. No. 1)

6. Attempt any ONE of the following :

12

- (a) Draw to a scale of 1 : 50, two point perspective view for plan and elevation shown in Figure No.-2. Retain all construction lines.

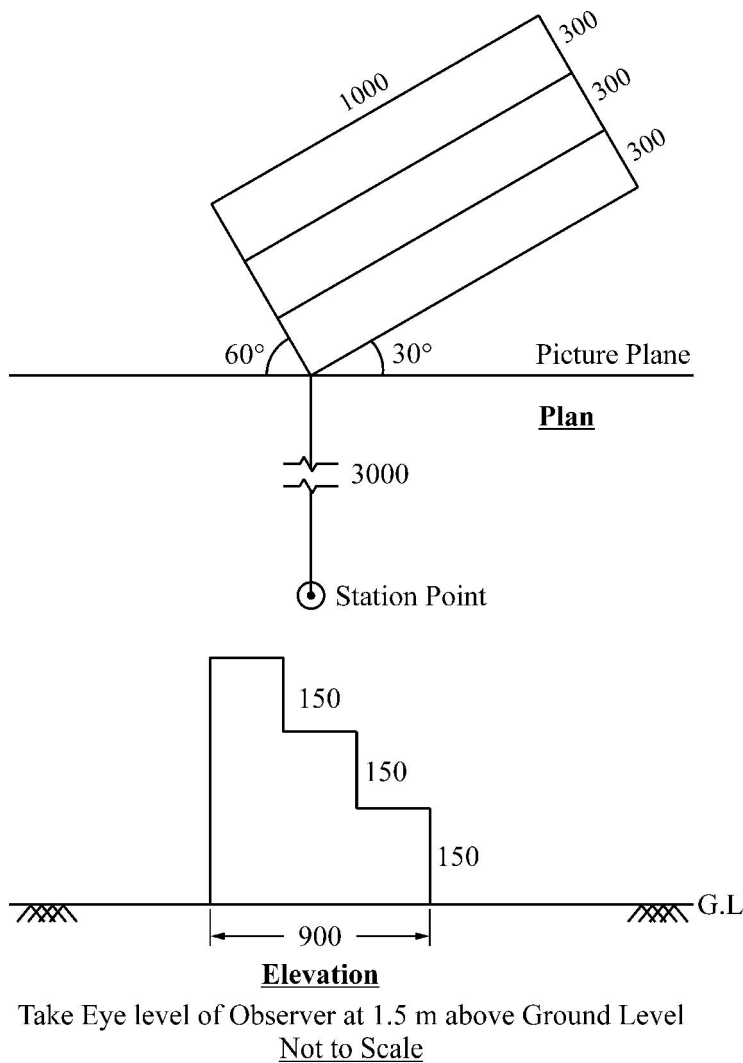


Figure No. – 2

- (b) Draw plan and section of a single flight RCC staircase using following data :
- (i) Number of risers – 10 of 160 mm height
 - (ii) Number of treads – 9 of 250 mm width
 - (iii) Width of staircase – 1000 mm
 - (iv) Landing of staircase – 1000×1000 mm
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