



# 17309

15162

4 Hours / 100 Marks

Seat No.

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- Instructions :**
- (1) *All questions are compulsory.*
  - (2) *Illustrate your answers with neat sketches wherever necessary.*
  - (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. A) Answer **any three** : **12**
- a) Draw graphical symbols for
    - a) Concrete
    - b) Brickwork
    - c) Glass
    - d) UCR
  - b) Define 'Aspect' and 'Prospect' and give one example of each.
  - c) State minimum dimensions required for the following :
    - a) Kitchen-cum-dining
    - b) Water closet
    - c) Rise and tread for residential building
    - d) Mezzanine floor area
  - d) Draw the following lines used in drawing
    - a) Centre line
    - b) Cutting plane line
    - c) Visible outline
    - d) Dimension line
- B) Draw a line plan of a proposed post office building for a town to scale 1:50. **8**
2. Fig. 1 shows line plan of a residential building. Draw to a scale of 1:50 the following views. Show all dimensions.
- i) Developed plan. **12**
  - ii) Elevation. **8**
  - iii) Section along AR. **8**
- Use the following data :
- a) Type of structure – Load Bearing.
  - b) Hard rock is available at a depth of 900 mm below G.L.
  - c) PCC (1:4:8) as bed concrete 200 mm thick.
  - d) UCR masonry in plinth in CM (1:6).
  - e) BBM in superstructure in CM(1:6), 300 mm thick for main walls and 200 mm thick for walls in WC and Bath.

**P.T.O.**



- f) Ceiling height – 3000 mm.
- g) RCC slab (1:2:4) 120 mm thick.
- h) Assume any other data, if required.

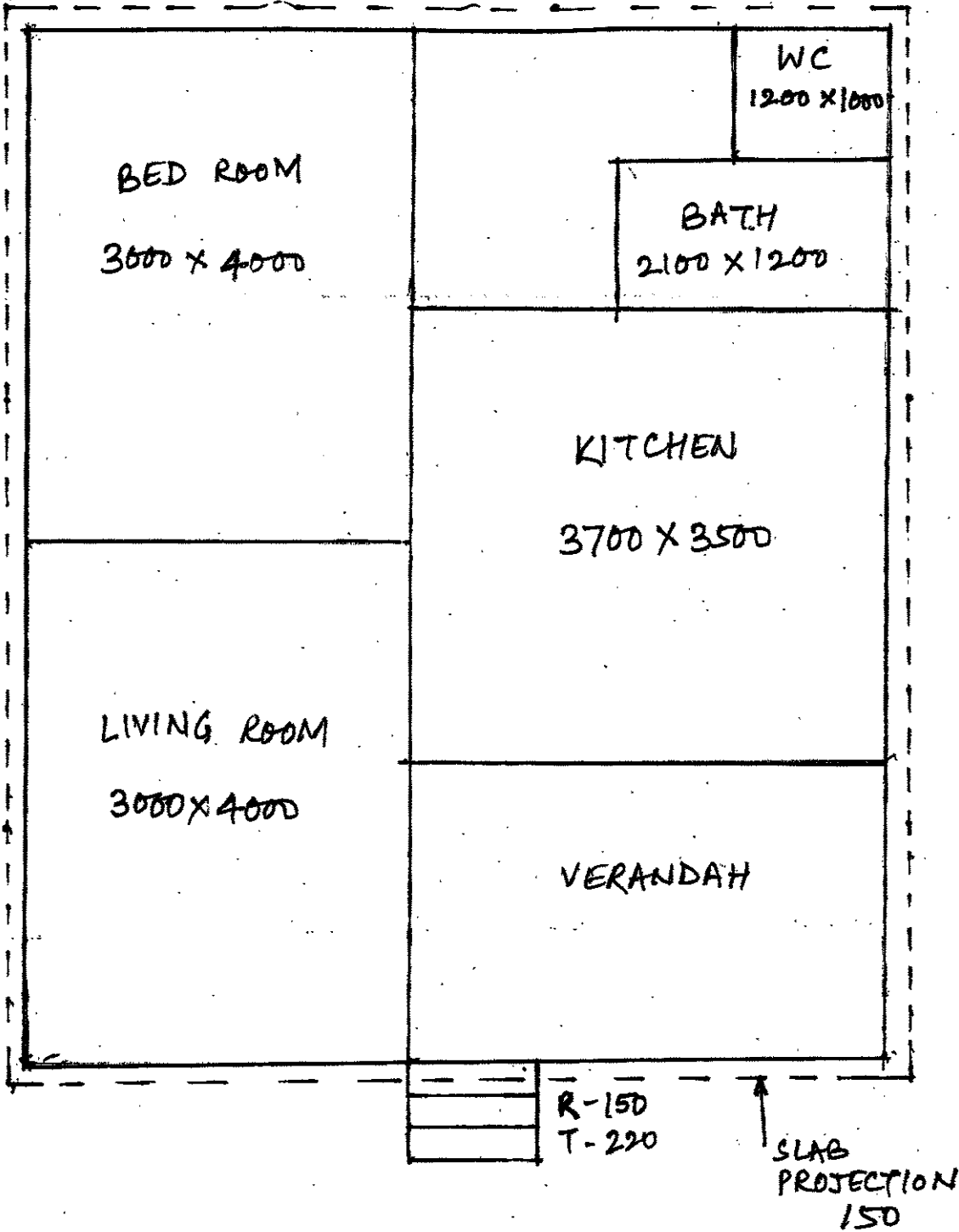


Fig. 1

**3. Answer any three :**

(8×3=24)

- Define the following terms and state their values for the residential building in Q. 2
  - Built up area
  - Carpet area
  - Plinth area
  - FAR
- Prepare a schedule of openings for Q. 2.
- Draw a neat labelled section of a typical RCC chajja.
- State common scales used for developed plan, foundation plan, section and site plan.
  - Define vanishing point. State and define the types of perspective drawings based on the number of vanishing points.

**4. Answer any two :**

16

- Define the following and state their types :
  - Privacy
  - CirculationGive examples of each type.
- State the units required for a school building. Also state their minimum dimensions.
- State the importance of site plan and foundation plan in submission drawings. (At least 4 points each)

5. Draw to a suitable scale two point perspective drawing of steps shown in Fig. 2. The station point is 3 m from picture plane and eye level is at 1.4 m above G.L.

12

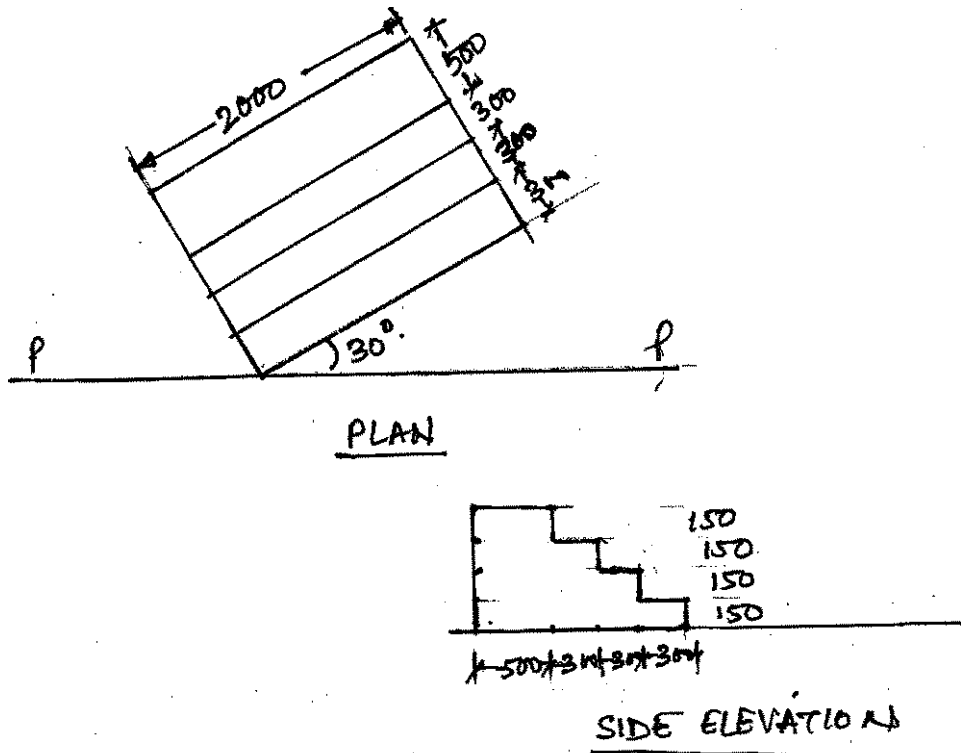


Fig. 2

OR



Draw to a suitable scale two point perspective drawing for the object shown in Fig. 3. Assume eye level at 1.2 m from GL and station point 3 m from PP.

12

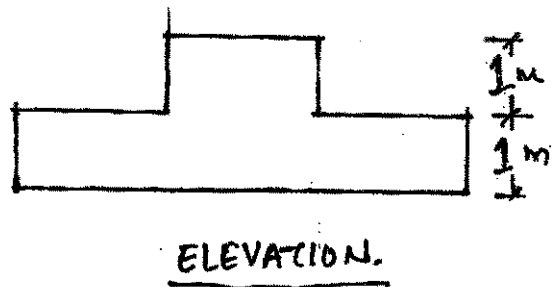
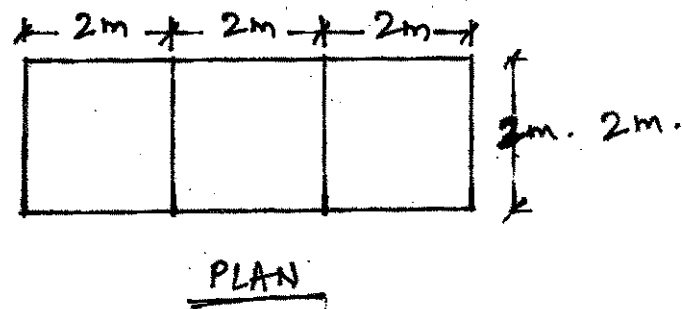


Fig. 3