



17309

21314

4 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**.

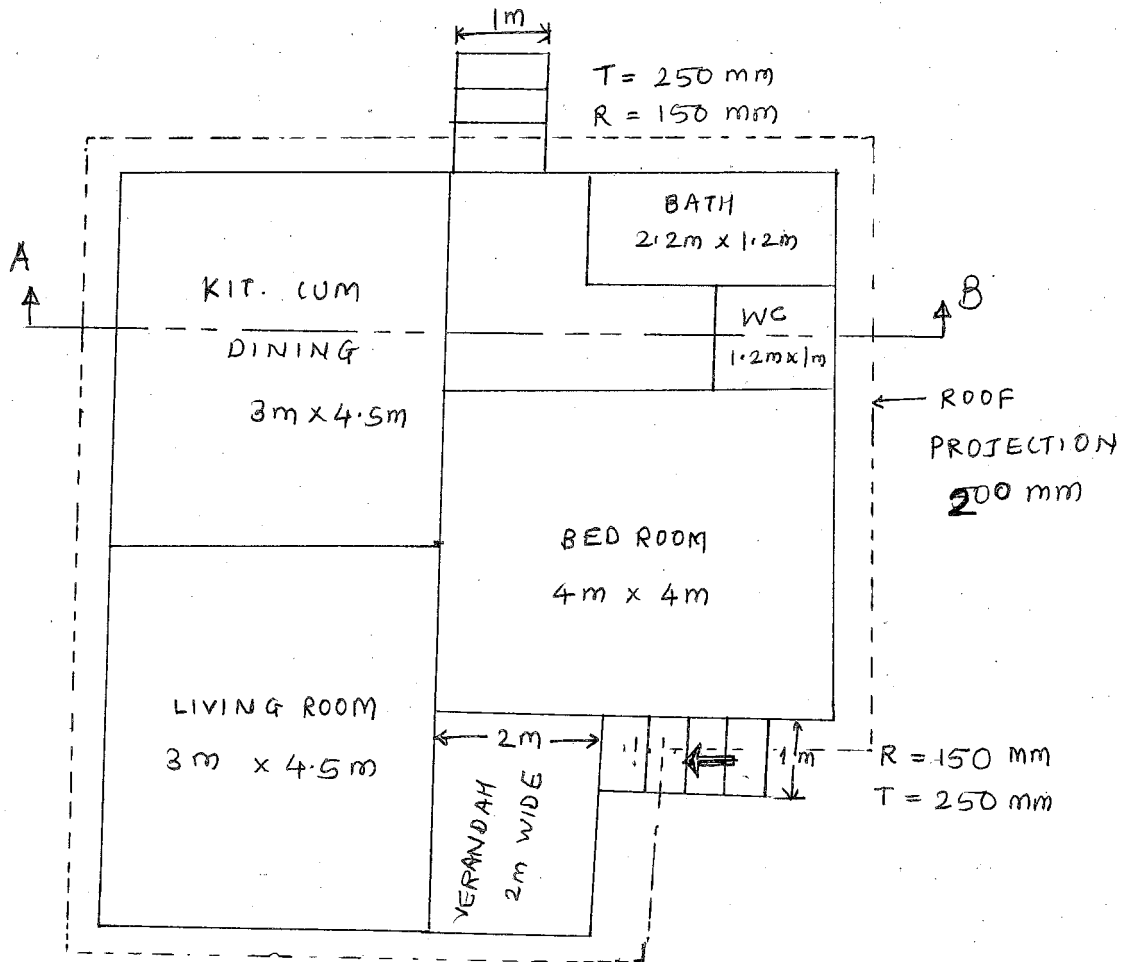
MARKS

1. A) Attempt **any three** questions : **(4×3=12)**
- a) Draw graphical symbols for following as per IS 962-1989.
BM, Concrete, Woodwork, Glass
 - b) Draw any four types of lines used in Civil Engg. Drawing.
 - c) Define FSI. How you will calculate plinth area from carpet area ?
 - d) Specify minimum dimensions of following units of residential building.
Living room, Bedroom, Kitchen, WC.
- B) Draw to a suitable scale a line plan of post office building. Label all units with their dimensions. Clearly indicate positions of openings. **8**
2. Fig No. 1 : Shows a line plan of residential building. Draw to a scale of 1:50 the following views. Show all dimensions and label the units. Use appropriate symbols for room furnishings such as WB, WC, Kitchen Sink, Otta, Cupboards etc.
- i) Developed plan **12**
 - ii) Elevation **6**
 - iii) Section along AB **10**
- Use following construction notes –
- Depth of foundation 1200 mm below GL
Plinth height above GL 600 mm
Height of bottom of slab from FL = 3200 mm
Slab thickness – 150 mm
Chajja projection – 750 mm
Super structure in BBM with all walls 300 mm thick.

P.T.O.



Assume additional data if required.



LINE PLAN

Fig. No. 1

3. Attempt **any three** questions :

(8×3=24)

- Draw neat sketch showing RCC components of lintel with 1 : 20 scale.
- Prepare schedule of openings in the standard format and area statement for building in Q. No. 2.
- Explain any four important principles of planning.
- Write dimensions of rise and tread for residential and public building.
 - Enlist types of perspective drawing and specify two principles used in perspective drawing.

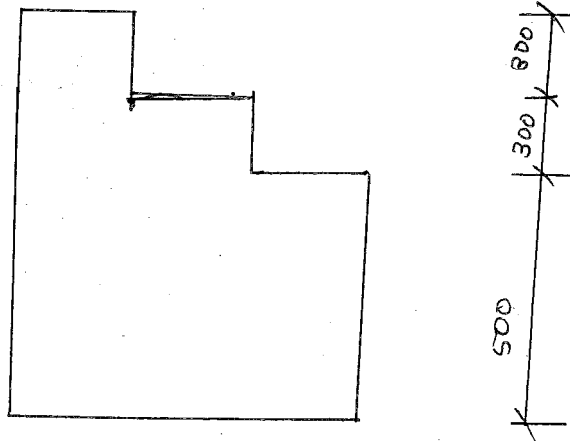


MARKS
(8×2=16)

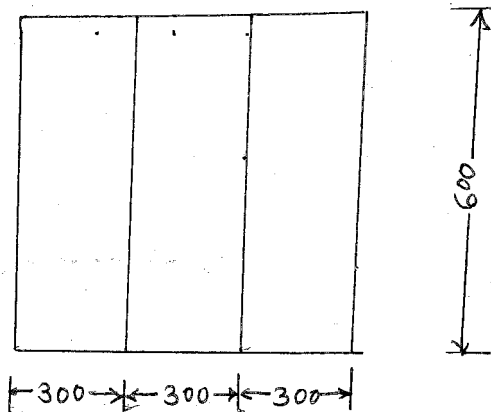
4. Attempt **any two** questions :

- a) Explain important rules and byelaws of sanctioning authorities for construction in rural area.
- b) Enlist units of primary health centre and write minimum dimension of each unit including sanitary unit.
- c) Draw foundation plan for 2 BHK residential building. Assume suitable sizes. Use scale 1 : 50 (Building load bearing type).

5. Draw to a suitable scale two point perspective drawing of the object shown below in Fig. No. 2 or Fig. No. 3. Assume eye level 1.5 m above GL and station point at 3.0 m from PP. Retain all construction lines. 12



ELEVATION



PLAN

Fig. No. 2

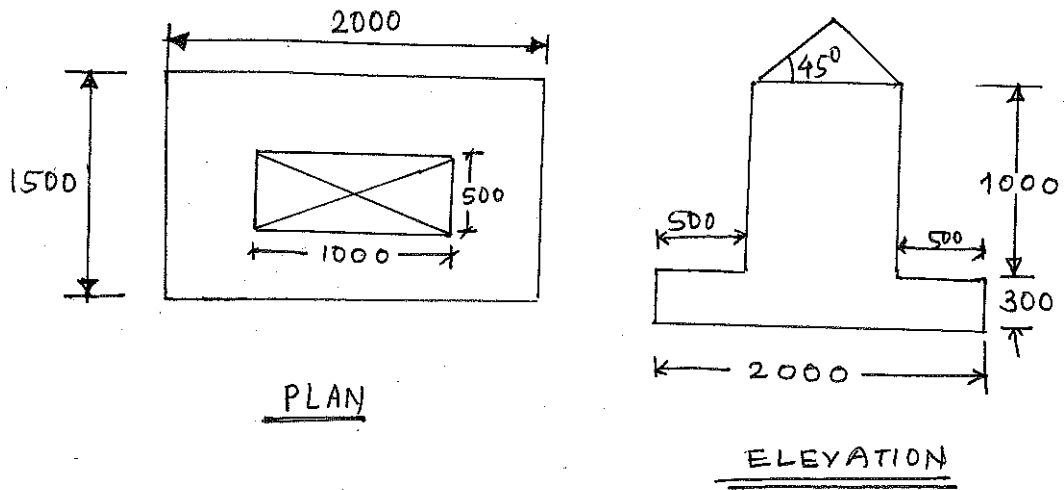


Fig. No. 3
