

**Scheme - G**  
**Sample Test Paper - I**

**Course Name : Civil Engineering Group**

**Course Code : CE/ CS/ CR/ CV**

**Semester : Third**

**Subject Title : Building Drawing**

**Marks : 25**

**17309**

**Time: 1.30 hour**

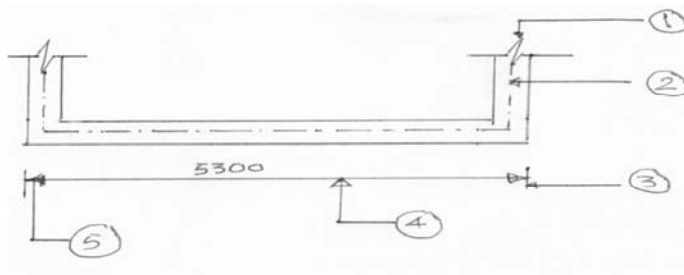
**Instructions:**

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. Preferably, write the answers in sequential order.
  6. Solve all question on drawing sheet only.
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**Q1. Attempt the following.**

**5 Marks**

- a) Refer fig.no.1 & identify the lines shown by number 1 to 5.



**Fig. No. 1**

- b) Draw the symbols to represent following

**4 Marks**

- |                   |                 |
|-------------------|-----------------|
| i) Concrete,      | ii) Brickwork   |
| iii) Ground Level | iv) Shower Head |

- c) **Define the following with example.**

**6 Marks**

- |             |                 |              |
|-------------|-----------------|--------------|
| i) Grouping | ii) Circulation | iii) Privacy |
|-------------|-----------------|--------------|

**Q.2 Attempt the following**

**8 Marks**

- a) Draw a line plan for residential building having verandah, living room, kitchen, bedroom and W / C & bath show appropriate dimension, labeling and position of door & window

**OR**

- a) Draw a line plan for primary health center in a village. Show all units with dimension and position of door, & windows.

- b) List four types of areas related to building.

**2 Marks**

Scheme - G

Sample Test Paper – II

Course Name : Civil Engineering Group

Course Code : CE/ CS/ CR/ CV

Semester : Third

Subject Title : Building Drawing

Marks : 25

17309

Time: 1.30 hour

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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. Preferably, write the answers in sequential order
- 

**Q1.** fig no. 1 shows plan of a small residential building & section of wall passing through slab, lintel, window and foundation. Draw following views.

- |                   |          |
|-------------------|----------|
| a) Developed Plan | 10 Marks |
| b) Elevation      | 05 Marks |

Use following data.

- i. Type of structure-Load Bearing
- ii. Hard rock is available at a depth of 900mm below G.L.
- iii. P.C.C.(1:4:8) as bed concrete 200mm thick
- iv. U.C.R. masonry in CM(1:6) in plinth
- v. B.B. masonry in superstructure in CM (1:6), 300mm thick for main walls and 200 mm thick for wall in WC and bath
- vi. Ceiling height 3100mm
- vii. R.C.C.slab (1:2:4) 120mm thick
- viii. Assume any other data if required.

**Q2. Attempt the following**

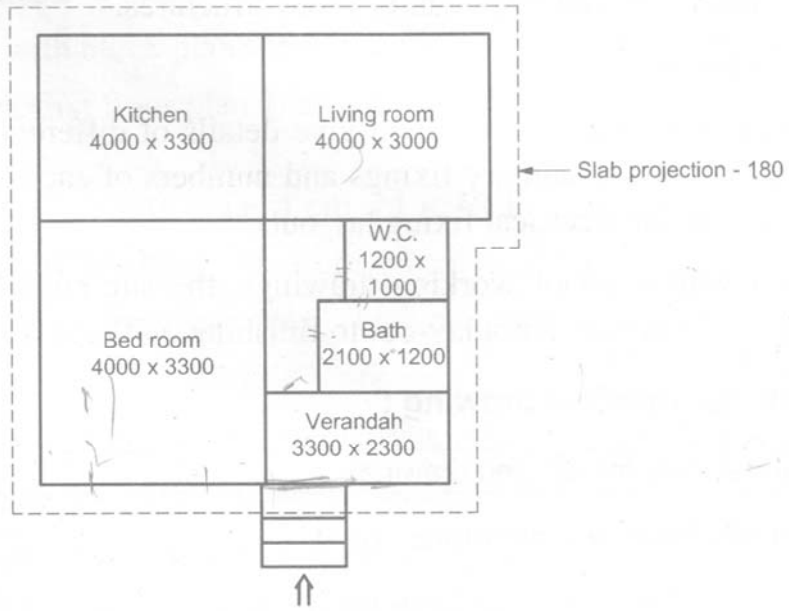
- |   |          |
|---|----------|
| a) Prepare a schedule of opening for the building shown in.             | 04 Marks |
| b) Prepare an area statement for building.                              | 04 Marks |
| c) Define the following   | 02 Marks |
| i) Station Point ii) Vanishing point in respect of perspective drawing. |          |

**OR**

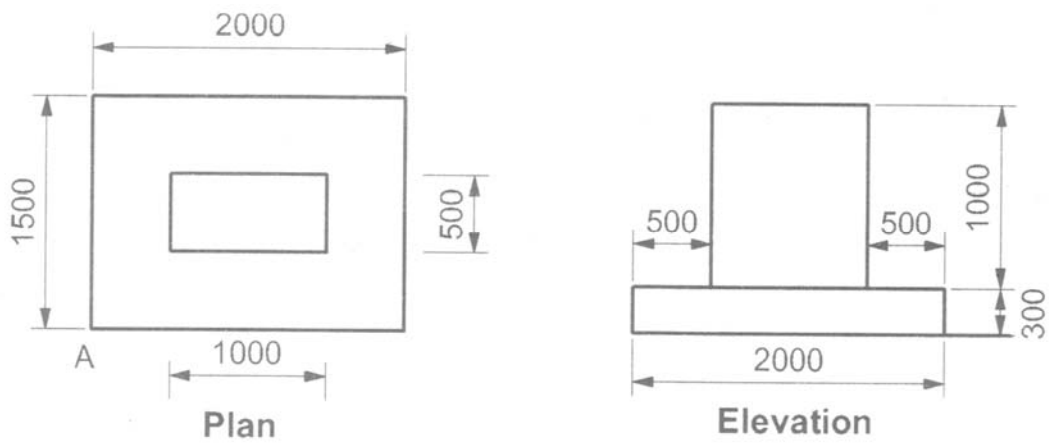
**Q3. Attempt the following**

**10**

Fig. no. 2 shown plan and elevation of small object. Draw to a suitable scale a two point perspective drawing. The observer stands at 3.5 m along central visual ray. Assume eye level 1.5 m above G. L. Retain all construction lines.



**Fig. 1**



**Fig. 2**

**Scheme - G**

**Sample Question Paper**

**Course Name : Civil Engineering Group**

**Course Code : CE/ CS/ CR/ CV**

**Semester : Third**

**Subject Title : Building Drawing**

**Marks : 100**

**17309**

**Time: 4 hour**

**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. Preferably, write the answers in sequential order

**Q1. A) Attempt any THREE.**

**12 Marks**

- a) Draw graphical symbols for following as per I.S. 968-1989  
i) Earthwork ii) Brick Work iii) Concrete iv) Woodwork.
- b) List the different types of lines used in drawing.
- c) Differentiate between 'Aspect' and 'Prospect' with one example of each.
- d) State minimum dimensions required for following  
i) Bedroom ii) Bathroom iii) Kitchen iv) Living Room.

- B) Draw to a suitable scale a line plan of hostel building stating the units and dimension of each.**

**08 Marks**

**Q2.** Figure no. 1 shows a line plan of residential building. Draw to the scale of 1:50 the following views. Show all dimensions & label the parts.

- |      |                  |       |                 |
|------|------------------|-------|-----------------|
| i)   | Developed Plan   | ..... | <b>12 Marks</b> |
| ii)  | Elevation        | ..... | <b>06 Marks</b> |
| iii) | Section along AB | ..... | <b>10 Marks</b> |

**Use following construction note**

- a) Depth of foundation 1000 mm below G.L
- b) Plinth height above GL - 600 mm
- c) Height of bottom of slab from floor level - 3200 mm
- d) Slab thickness - 150 mm
- e) Chajja projection - 750 mm
- f) Super structure in B.B. masonry with all walls 300 mm thick and internal walls of bath & WC 100 mm thick.  
Assume suitable data if required.

**Q.3 Attempt any THREE.**

**24 Marks**

- a) Prepare schedule of opening and area statement for Q.no.2.
- b) Draw to the suitable scale a site plan for a building mentioned in Q.no.2

- c) Suggest various units for high school building for 500 students to be constructed in village.
- d) i) State the importance of construction note and foundation plan in drawing.  
ii) Define station point and Vanishing point in perspective drawing.

**Q.4 Attempt any TWO.**

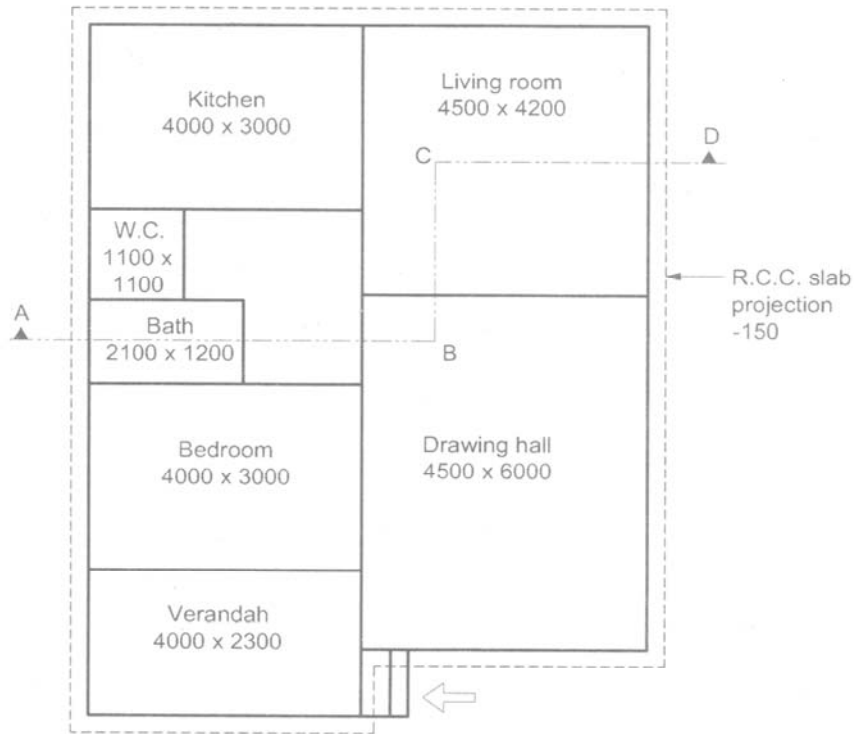
**16 Marks**

- a) Define following
  - i) Plot area ii) Built up area iii) Super built up area iv) Plinth area.
- b) Explain the terms circulation and grapping.
- c) Draw detailed plan and section of RCC column & column footing with following data.
  - i) Size of Footing        1500 x 1500
  - ii) Size of Column        300 x 300.

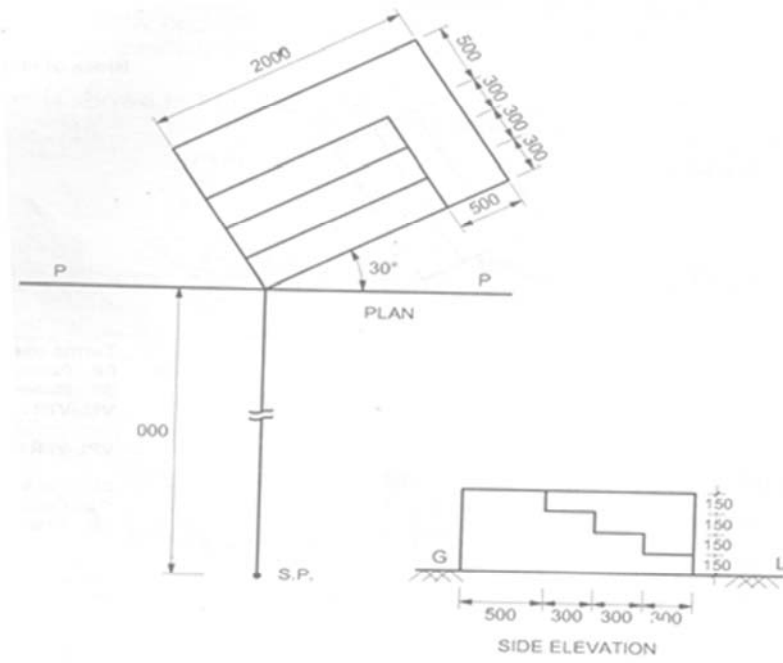
- Q.5** Draw to a suitable scale two point perspective drawing of small monument shown in fig.2. Assume eye level 1.5 m above ground level and station point at 3.0 m from picture plane along central visual ray. Retain all construction lines. **12 Marks**

**OR**

Draw to the scale two point perspective drawing of small monument shown in fig.3. Assume eye level 1.5 m above ground level and station point at 3.0m from picture plane along central visual ray. Retain all construction lines.



**Plan**  
**Fig. 1**



**Fig. 2**

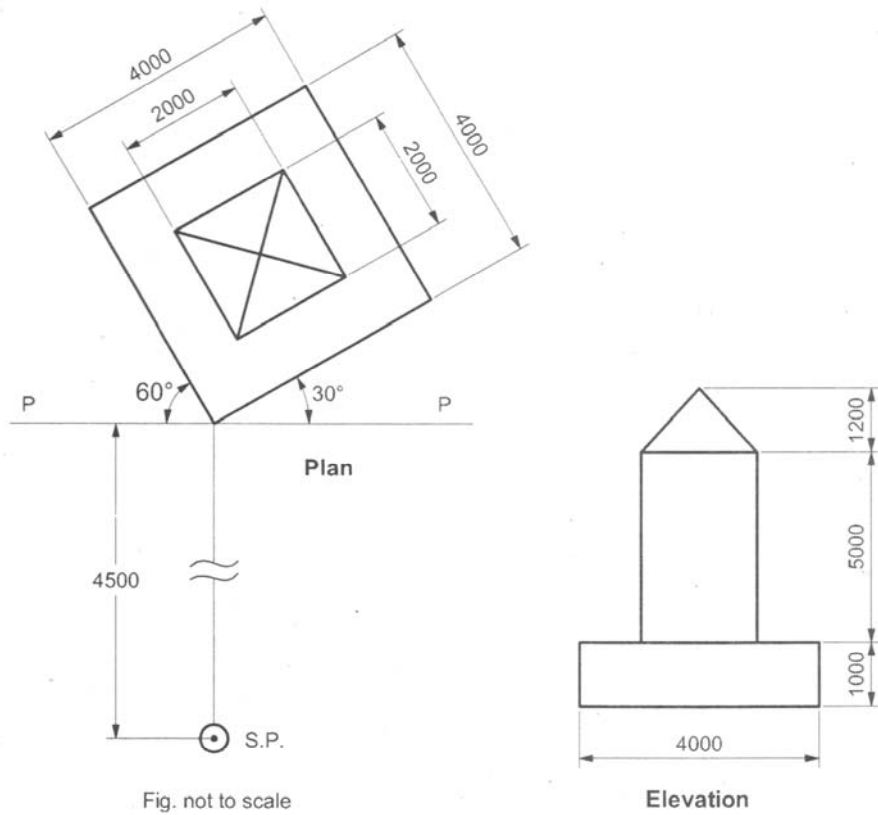


Fig. not to scale

**Fig. 3**