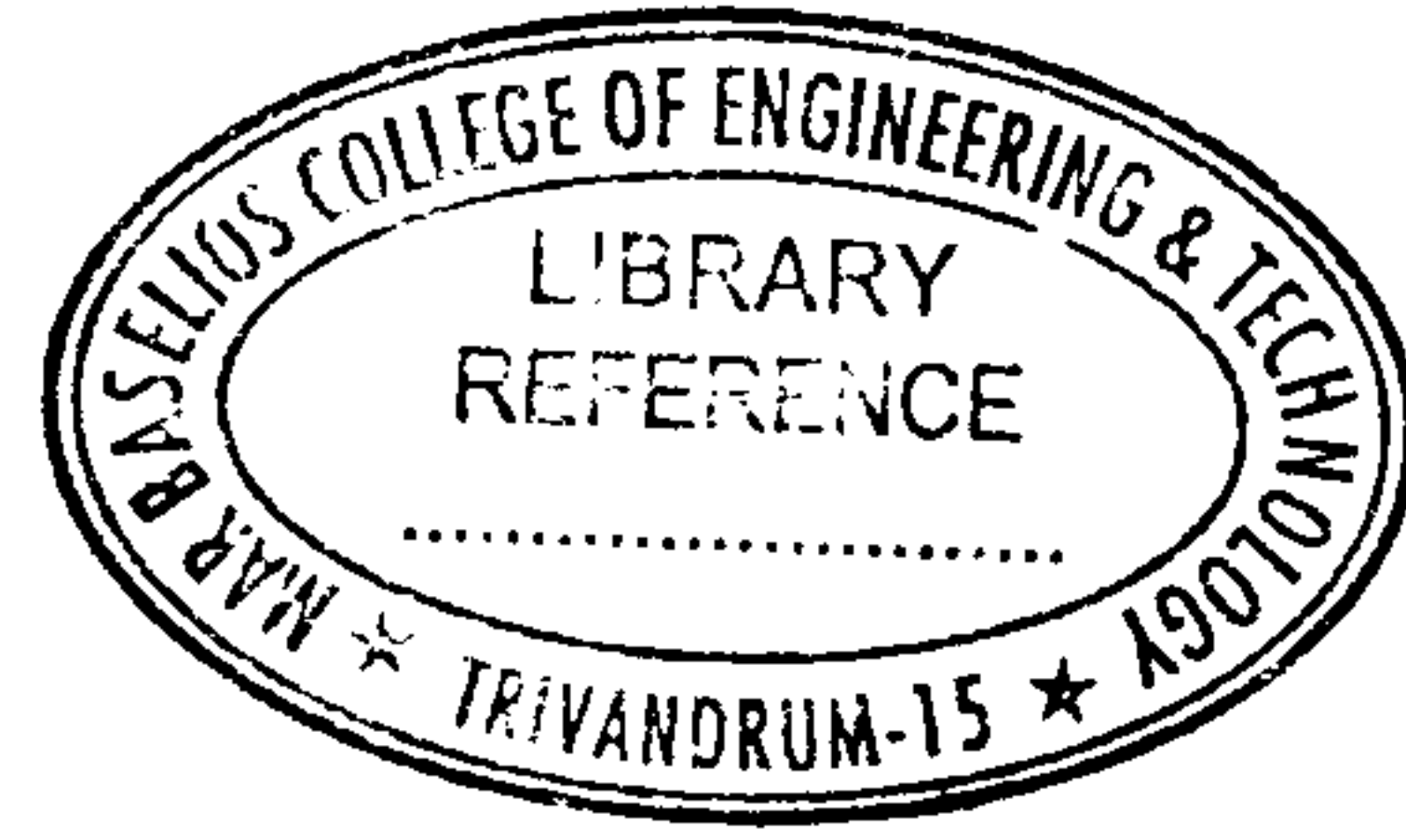




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3018

Reg. No. : .....

Name : .....

**Third Semester B.Tech. Degree Examination, April 2015  
(2013 Scheme)**

**13.306 : ENGINEERING DRAWING (MP)**

Time : 4 Hours

Max. Marks : 100

**PART – A**

**Machine Drawing**

Time : 2 Hours

Max. Marks : 50

Answer **any two** questions from Module I and the question from Module II.

**Module – I**

1. Draw a Lewis type foundation bolt and indicate standard proportions on the drawing.
2. Draw two views of a single riveted single strap butt joint. Take thickness of plates as 10 mm. Dimension the drawing in terms of the diameter of rivet.
3. Draw the sectional elevation of socket and spigot pipe joint. **(10x2=20 Marks)**

P.T.O.



### Module – II

4. Draw the right half sectional elevation and simple plan of the Plummer Block given below. (22+8=30 Marks)

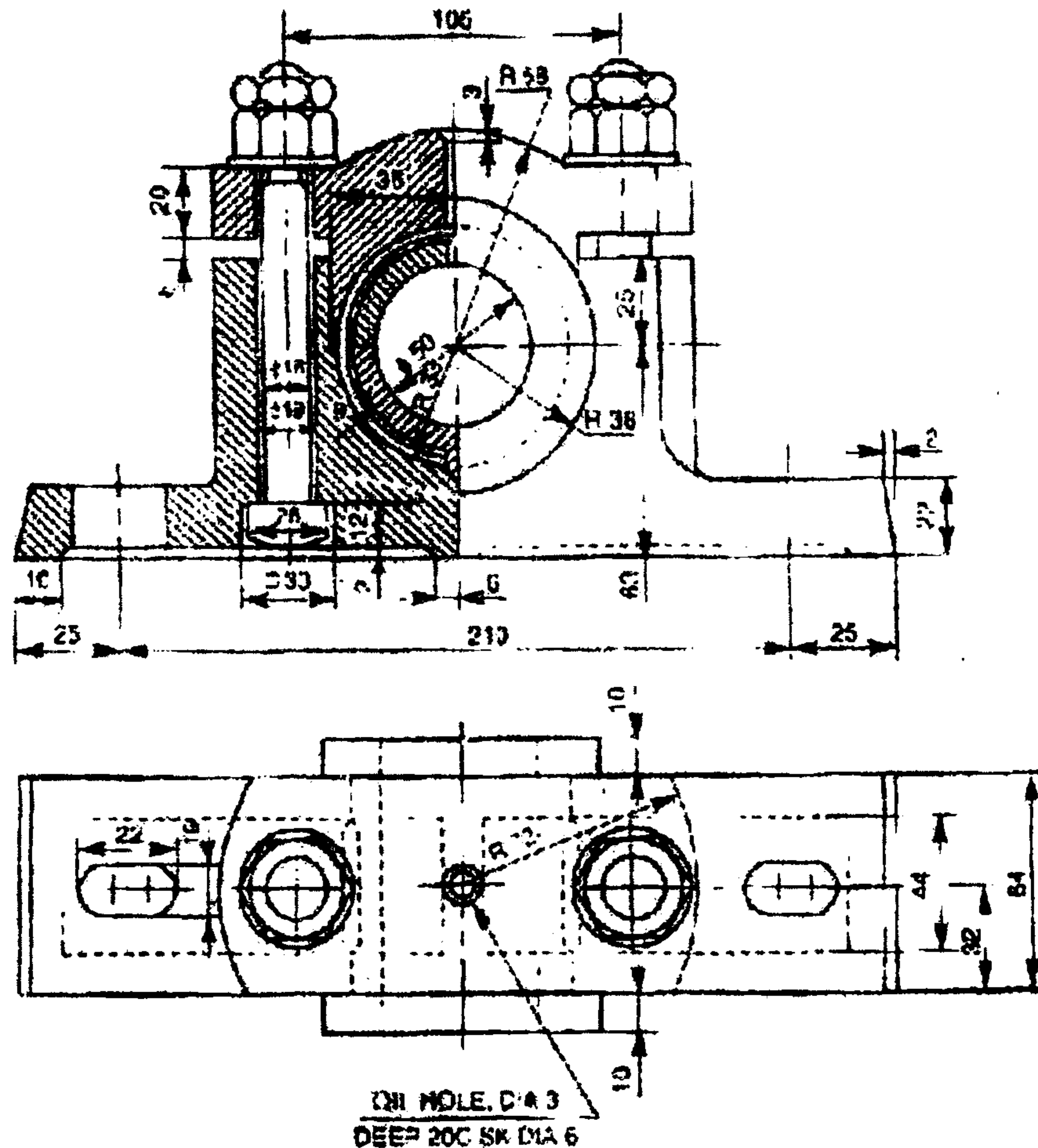


Figure 1. Plummer Block

### PART – B

### Civil Engineering Drawing and Estimation

Time : 2 Hours

Max. Marks : 50

Answer **any one** question **each** from Module III and IV. Assume suitably missing data if any.

### Module – III

5. The line sketch of a residential building is shown in Fig. 1. Draw to a suitable scale the following :

i) Plan at sill level

ii) Section on AA

iii) Front elevation.

30

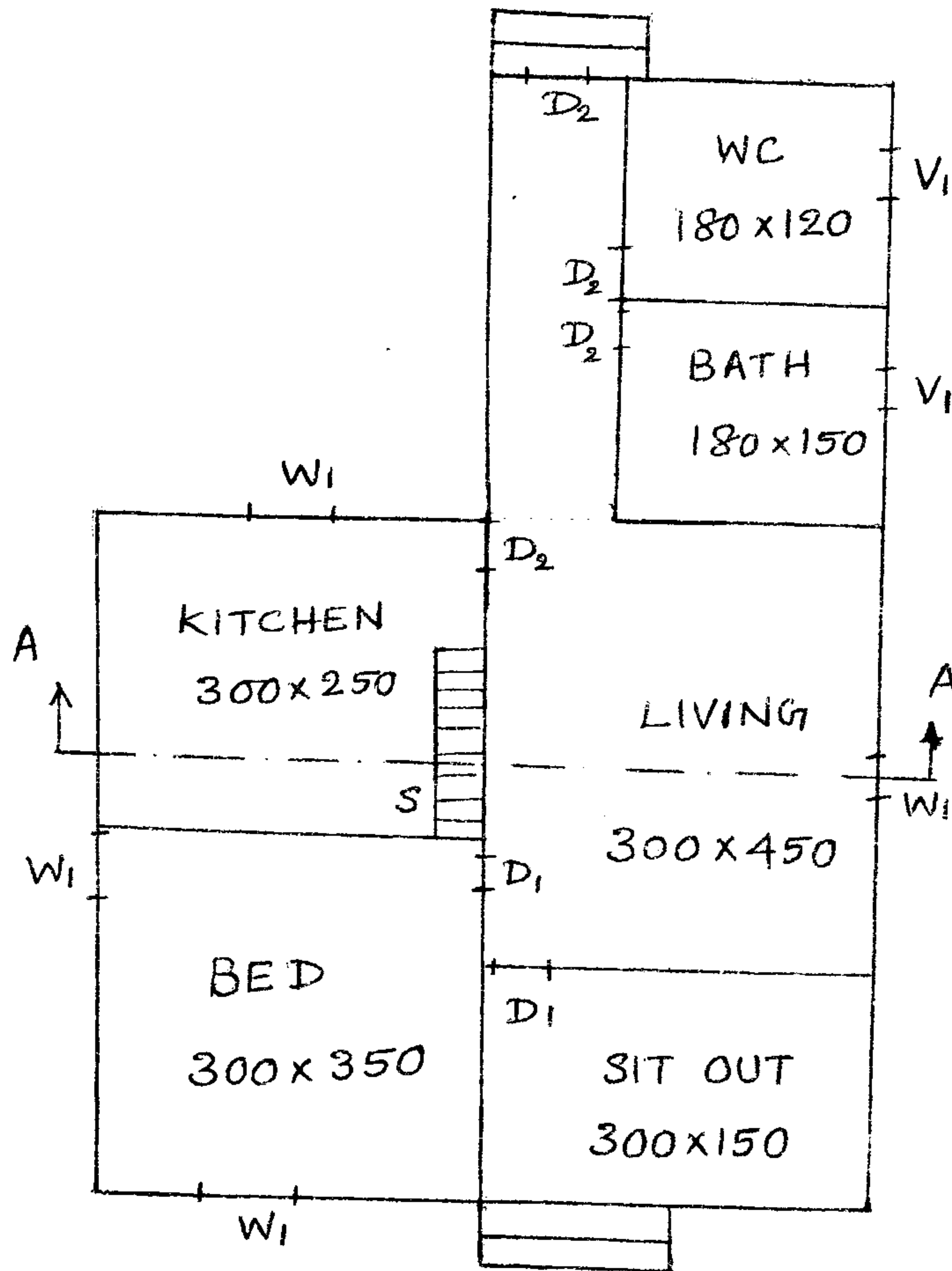


Fig. 1

Dimensions are in cm

D<sub>1</sub> – 100 × 200

D<sub>2</sub> – 80 × 200

W<sub>1</sub> – 120 × 140

V<sub>1</sub> – 90 × 60

S – SHELF

Specifications : Foundation is made of RR masonry in CM 1 : 6, 60 cm × 60 cm over a PCC bed of 90 cm × 20 cm. Basement is of RR masonry 45 cm × 45 cm in CM 1 : 6. Walls are of brick masonry in CM 1 : 5 30 cm thick to a height of 300 cm. RCC lintels of 15 cm thickness is provided throughout the walls. Roofing is of RCC slab 12 cm thick. Roof slab for sitout, bath, W.C. and corridor is at a height of 240 cm. Parapet walls and sunshades may be provided.

OR



6. The line sketch of a small hospital building is shown in Fig. 2. Dimensions are in cm. Specifications are same as in Question No. 5.

Draw to a suitable scale the following :

- i) Plan at sill level      ii) Section on XX      iii) Front elevation.

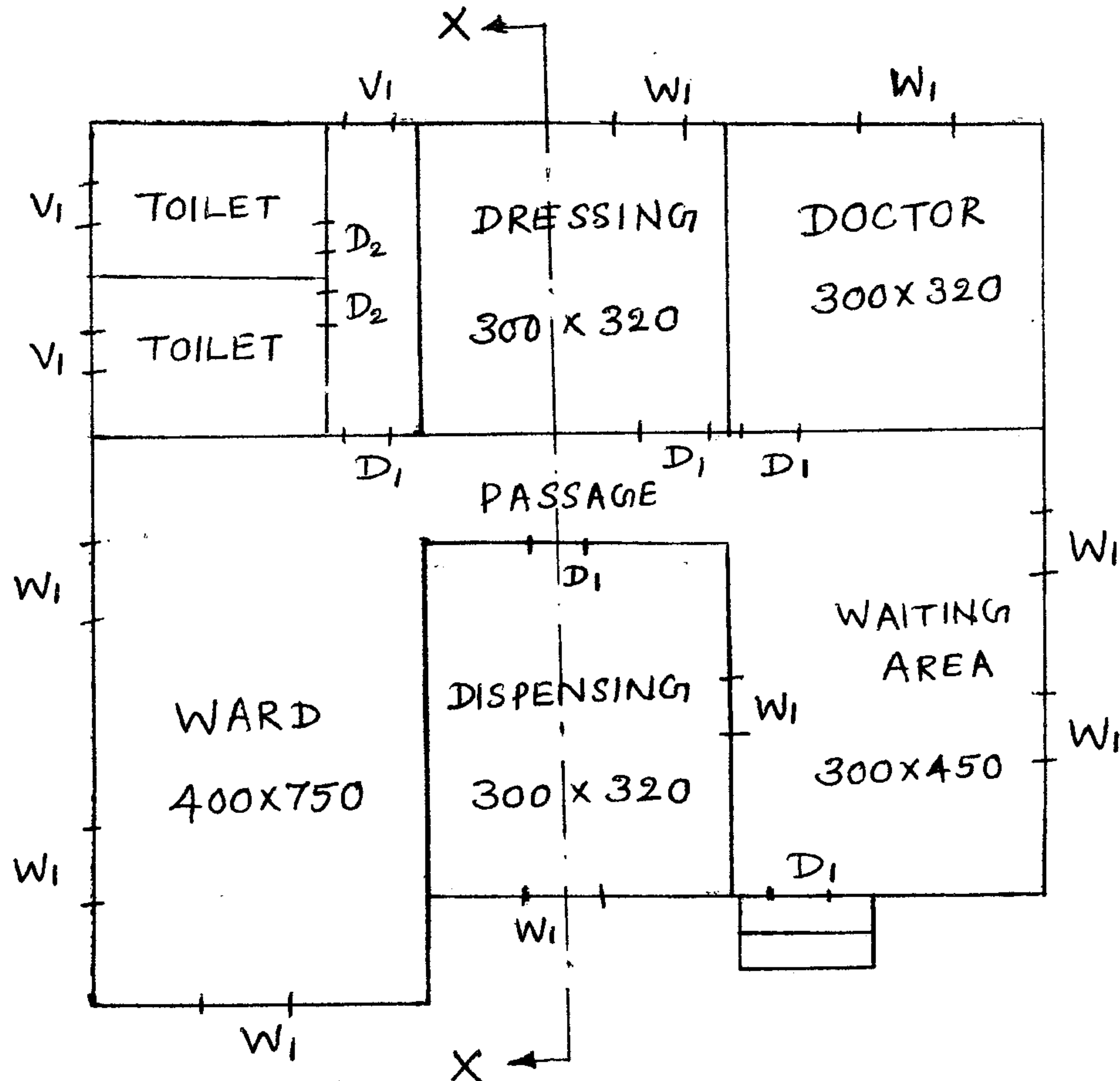


Fig. 2

All walls are 3 m high.

#### Module - IV

7. Estimate the quantities of the following items of work for the building shown in Fig. 1. **20**

- a) Earthwork excavation      b) Plastering in CM 1 : 3 for ceiling.

OR

8. Estimate the quantities of the following items of work for the building in Fig. 2.

- a) RCC work for the roof slab  
b) RR masonry in CM 1 : 6 for foundation and basement.

