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K – 4255

Reg. No. :

Name :

Fourth Semester B.Tech. Degree Examination, September 2020

(2013 Scheme)

13.406 : BUILDING PLANNING AND DRAWING (C)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions :

1. Explain the terms (a) FAR (b) FSI.
2. What is mean be CRZ ? List the prohibition activities of this rule.
3. Give the unit of measurement of
 - (a) Earthwork excavation
 - (b) Plastering
 - (c) Pointing
 - (d) Brick work.
4. Differentiate
 - (a) Plinth area and carpet area
 - (b) Covered area ratio and floor area ratio.
5. Calculate the number of brick required for a wall of size 3m x 2m having one brick thick using IS brick.

(5 × 4 = 20 Marks)

P.T.O.



PART – B

Answer **any one full** questions from **each** Module.

Module – I

6. Explain the various provisions to be followed for a residential building as per latest KBR.
7. Explain various environmental protection rules relevant to the residential building.

Module – II

8. Explain with neat sketch, the working of a rain water harvesting system for a residential building.
9. Estimate the following quantities of the building shown in the figure 1.
 - (a) Earth work excavation
 - (b) PCC in foundation
 - (c) RR masonry for foundation
 - (d) RR masonry for basement. ($W1=60 \times 150\text{cm}$; $W2=120 \times 150\text{cm}$; $D100 \times 210\text{cm}$)Dimensions given in the figure are in centimetres. Room size shown in the figure are internal.

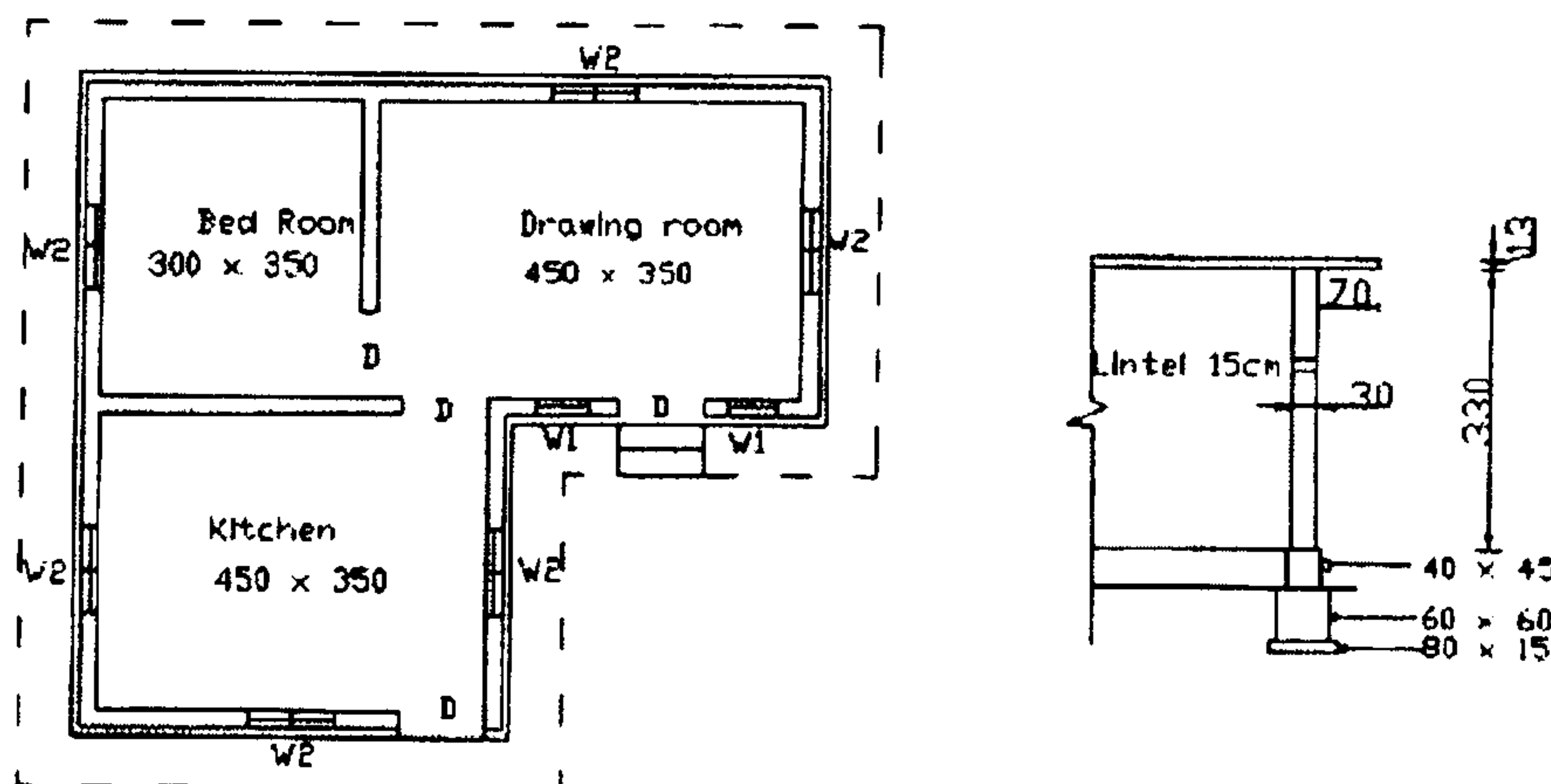


Figure – I

(2 × 20 = 40 marks)



Module – III

10. Develop the following drawing from the line sketch given in the **Figure 2**.
- Sectional Plan at still level
 - Sectional Elevation (select suitable section)
 - Front Elevation.

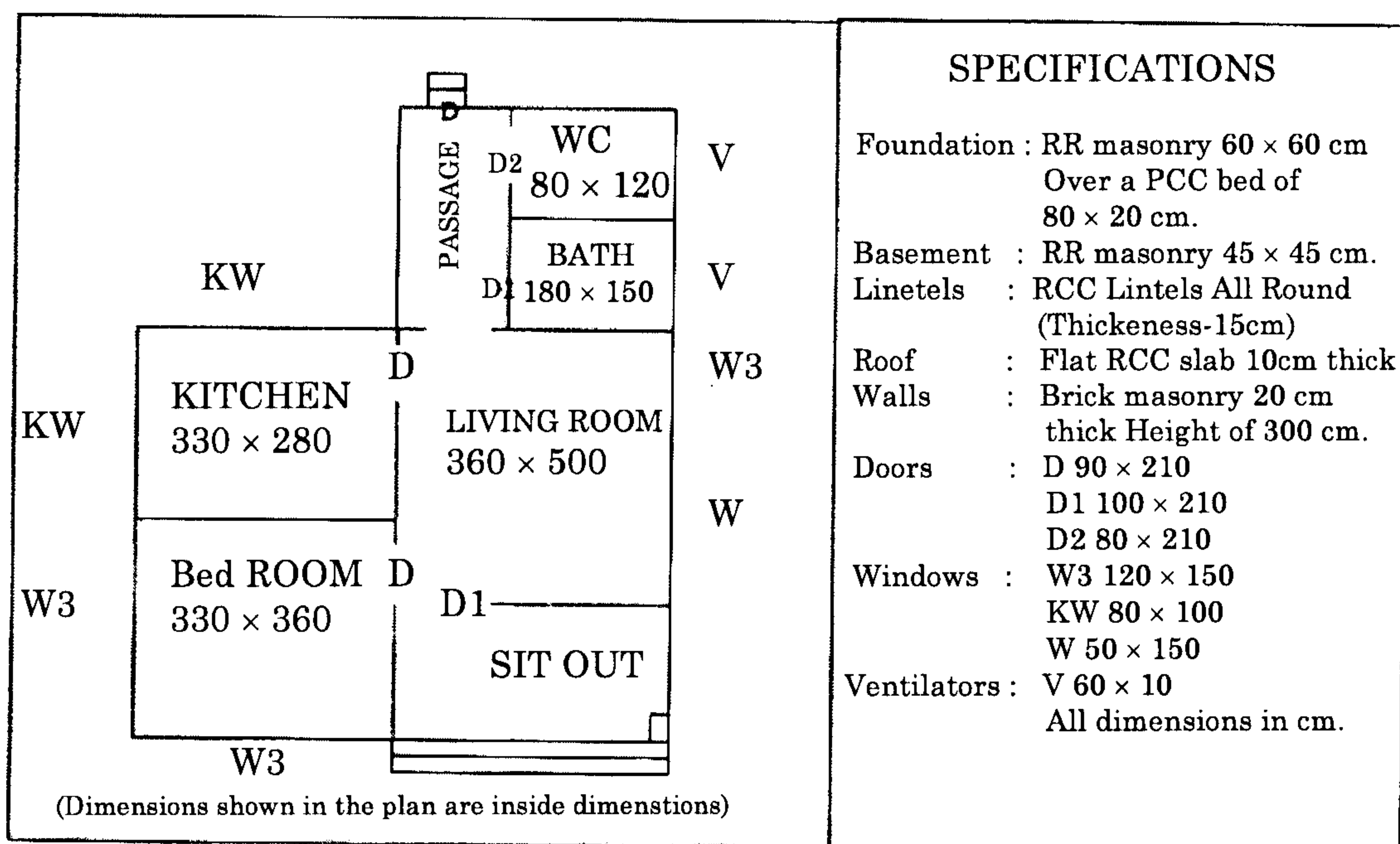
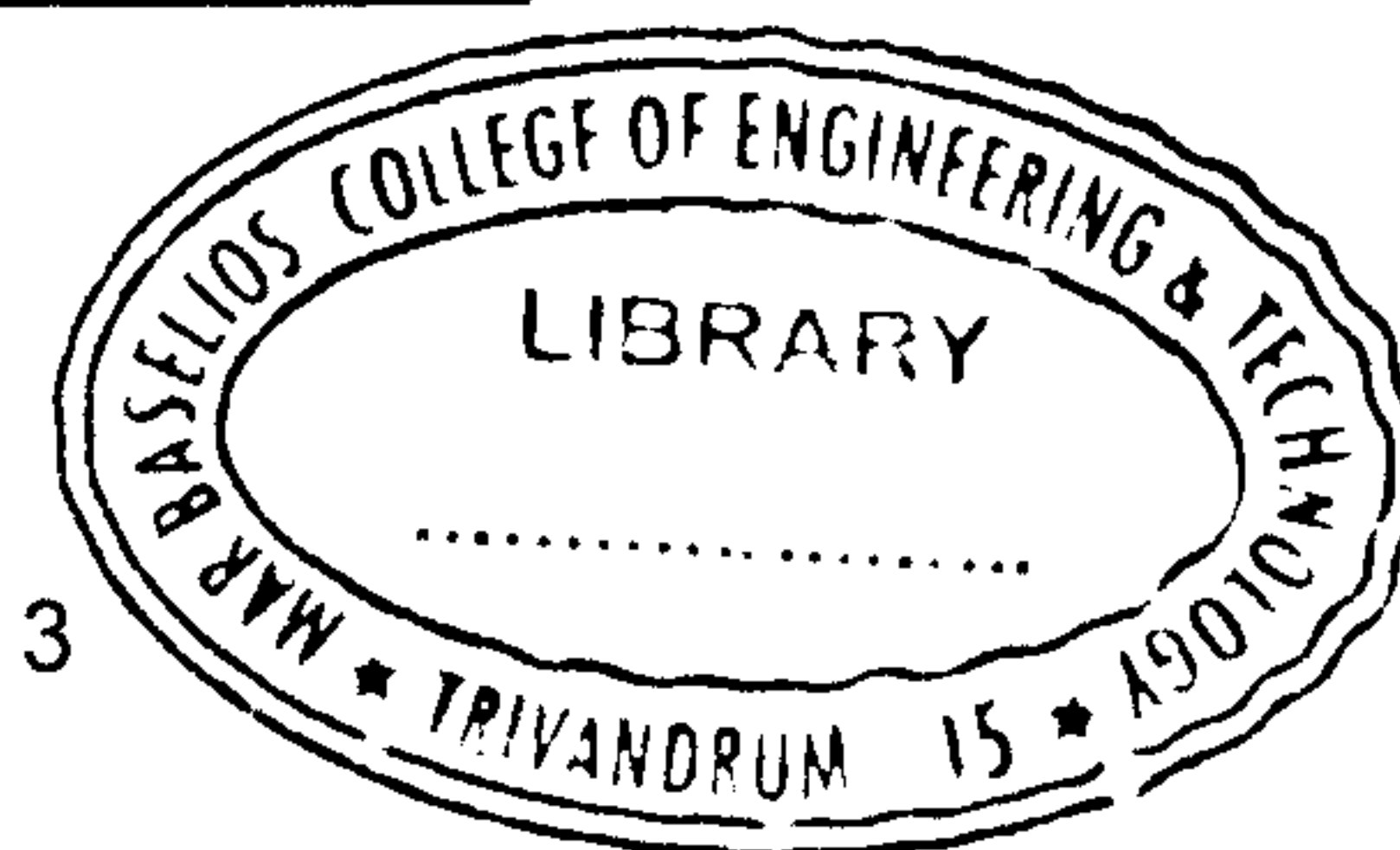


Figure 2

11. Prepare water supply and sanitary layout plan of the line sketch shown in the **Figure 2**. The buildings have following setback from plot boundaries, 3m at front side, and 2m on all other sides.

(1 × 40 = 40 marks)



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