

(Pages : 4)

H – 2817

Reg. No.

Name :

Eighth Semester B.Tech. Degree Examination, November 2019

(2013 Scheme)

13.801 : QUANTITY SURVEYING AND VALUATION (C)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions..

1. What is rate analysis? Explain the data required for this.
2. What is conveyance of material?
3. Explain various methods of preliminary estimate.
4. Explain the purpose of bar bending schedule.
5. Differentiate Gross income and net income.

(5 × 4 = 20 Marks)

PART – B

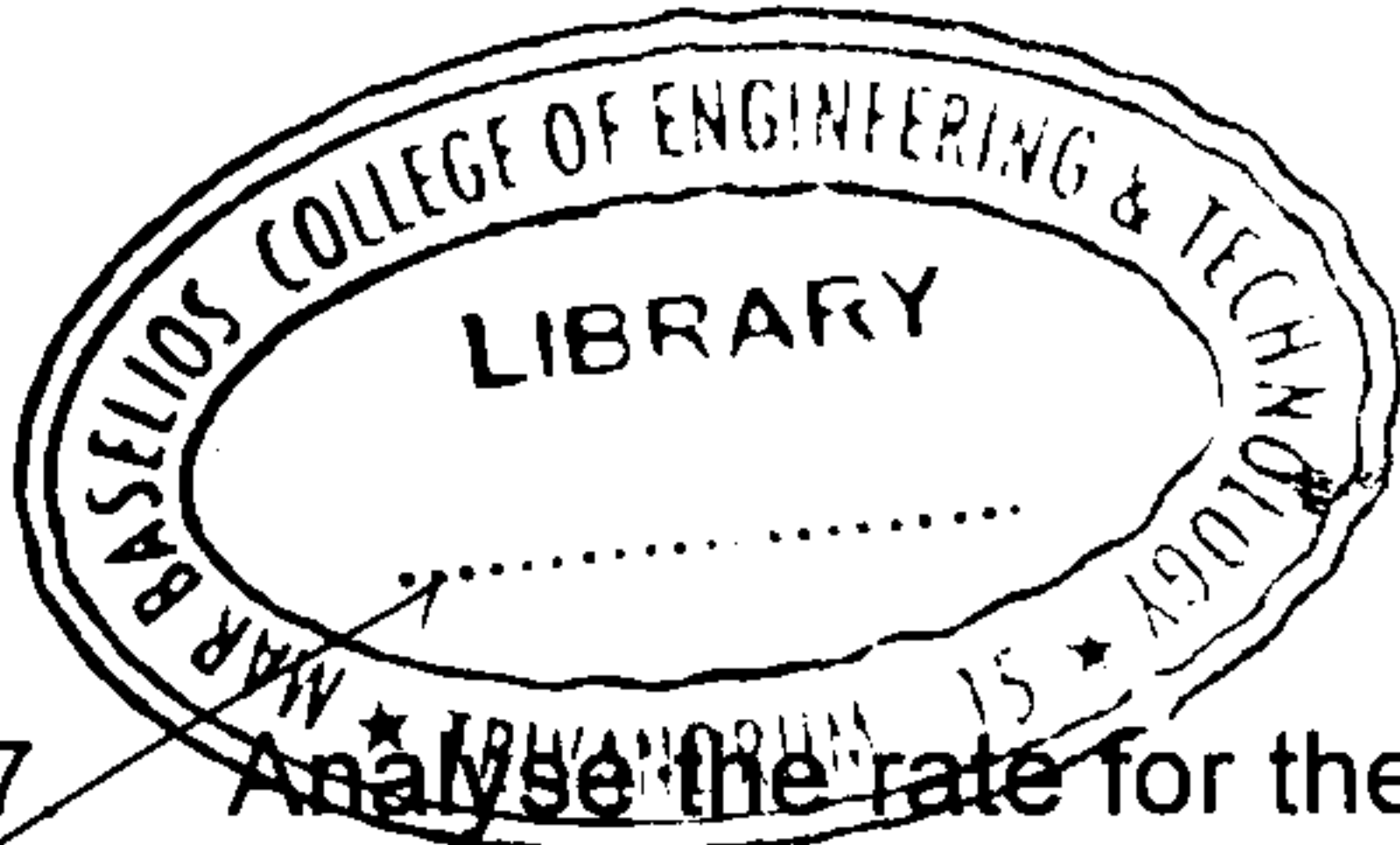
Answer **any one** full question from each Module, questions from Module-I and IV carries **15** marks each. Module II and III carries **25** marks each.

Module I

6. (a) Write down the detailed specification for Brick work for super structure. (8)
- (b) Differentiate the cost of material at source and site. (7)

P.T.O.





7. Analyse the rate for the following items

- (a) Brick work in CM 1:6 using wire cut brick of size $22.9 \times 11.2 \times 7$ cm. Brick 460 No's @ 6800/1000nos, sand 2m^3 @ Rs.2500/ m^3 , Cement 48 kg @ Rs.7500/q, Labour- 0.7 Mason @ Rs.800 each, 0.35 Man @ Rs.600 each, 0.70 Women @ Rs.550 each. (8)
- (b) Plastering with CM 1:4, 12mm thick one coat, Sand $0.1\ 5\text{m}^3$ @ Rs. 2500/ m^3 , Cement 54kg @ Rs.7500/t, Labour 0.90 Brick mason @ Rs.800 each, 0.55 Man@Rs.600 each, 1.10 women @ Rs. 550 each. (7)

Module II

8. Prepare a detailed estimate of quantity of the following item of a building given in the figure-i (a) Earth work Excavation (b) Brick work for superstructures (c) Wood work for shuttering of doors (d) Wall Plastering (e) RCC work for roof and lintel.

9. Prepare a detailed estimate of quantity of the following item of a building given in the figure – 1 (a) PCC 1:4:8 for foundation (b) Rubble masonry foundation and basement (c) Wood work for frame of door and windows (d) Wall painting.

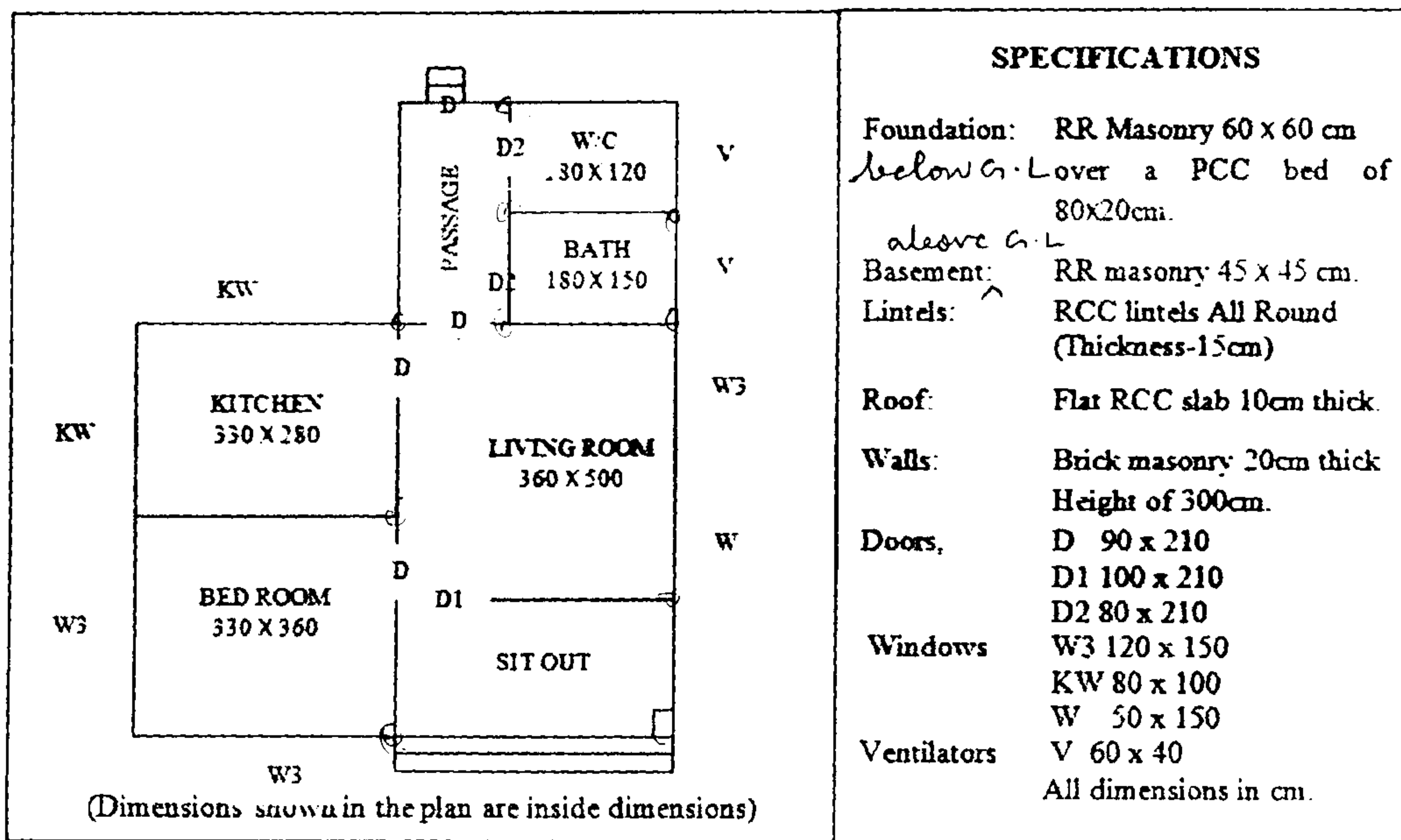
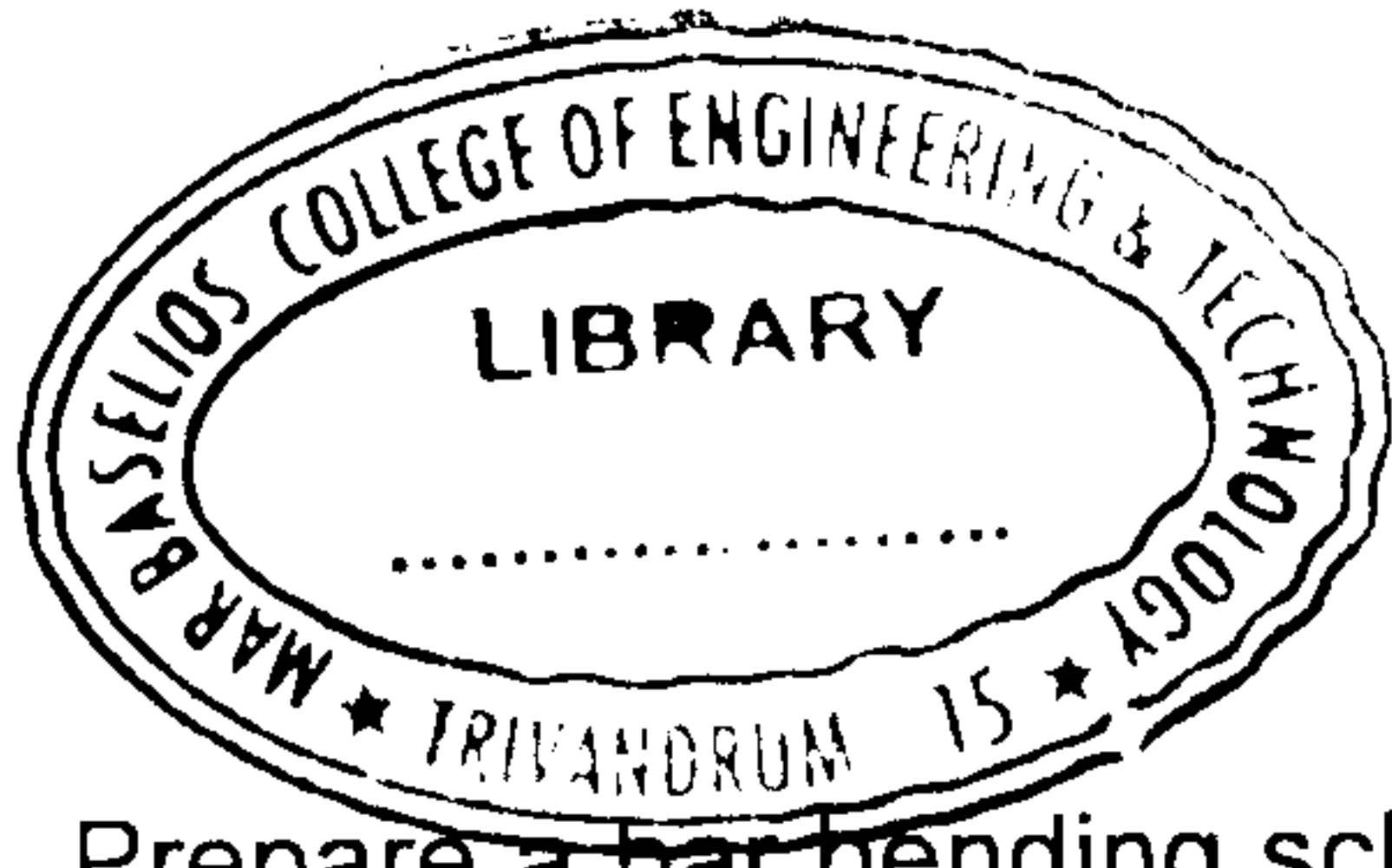


Figure 1 Building Plan.





Module III

10. Prepare a bar bending schedule of a RCC retaining wall of 20 m in length, Cross section is given in Figure-2.

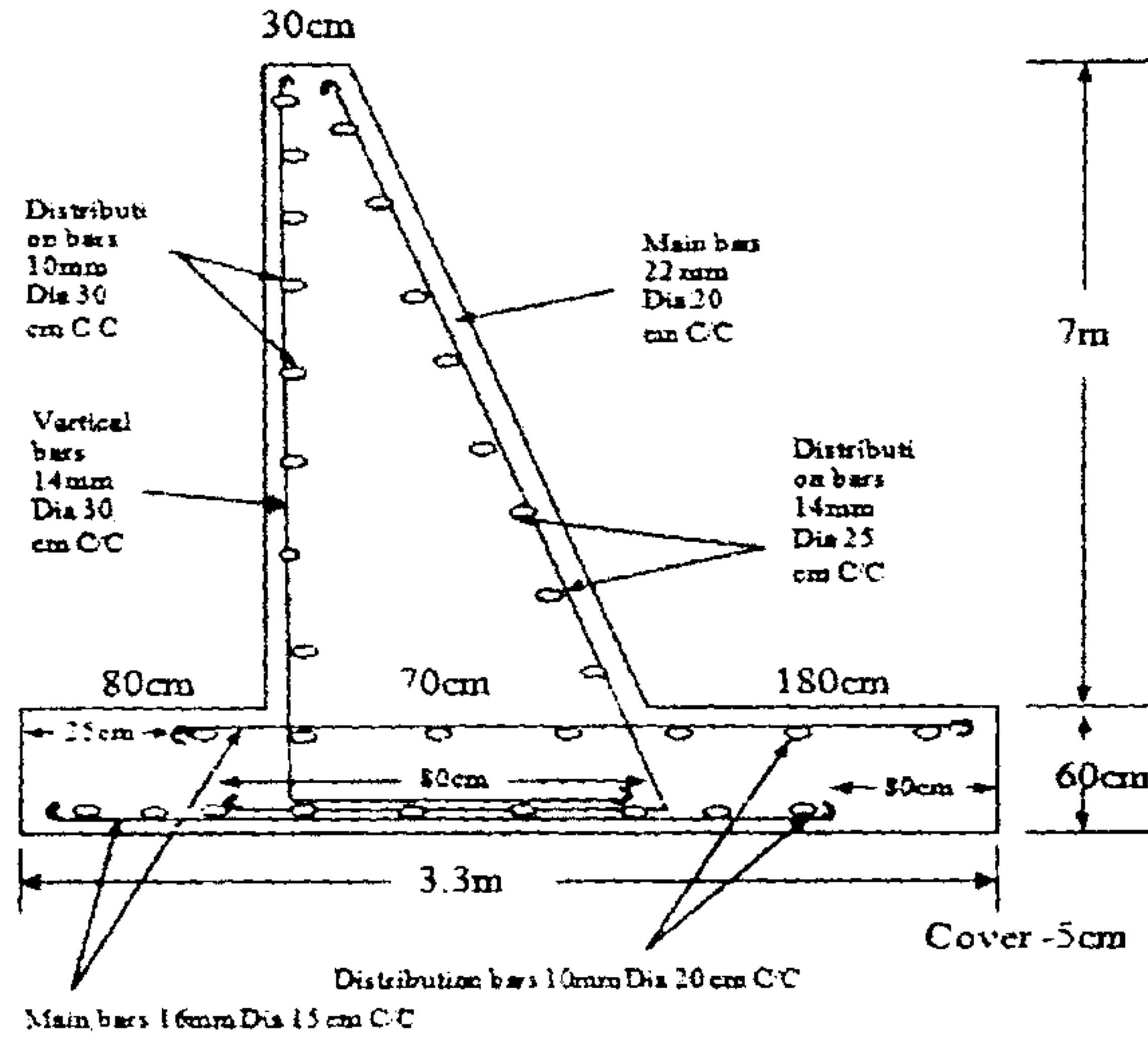


Figure 2 C/S of Retaining wall.

11. Prepare bar bending schedule of a RCC Column with foundation footing shown in the figure 3.

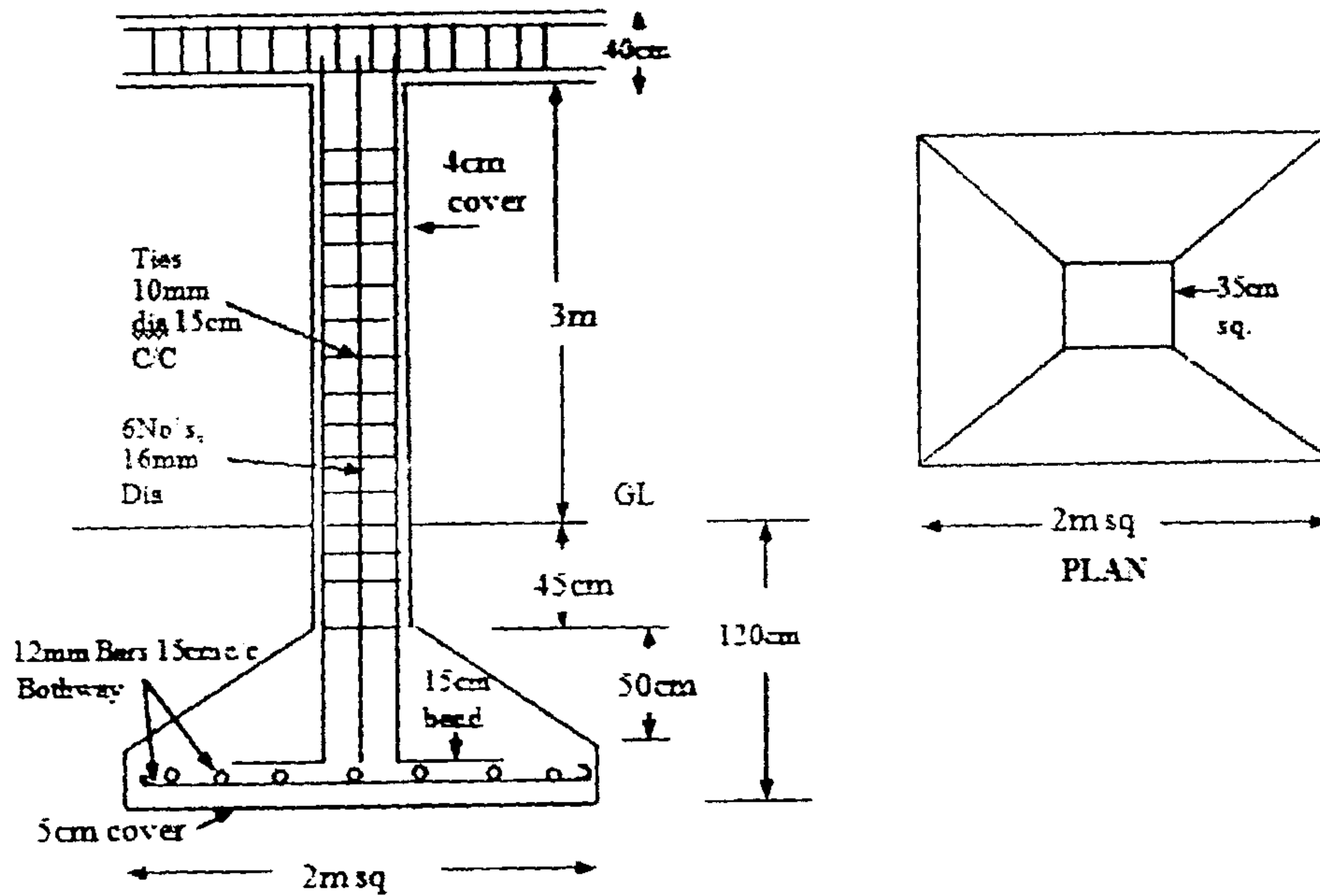
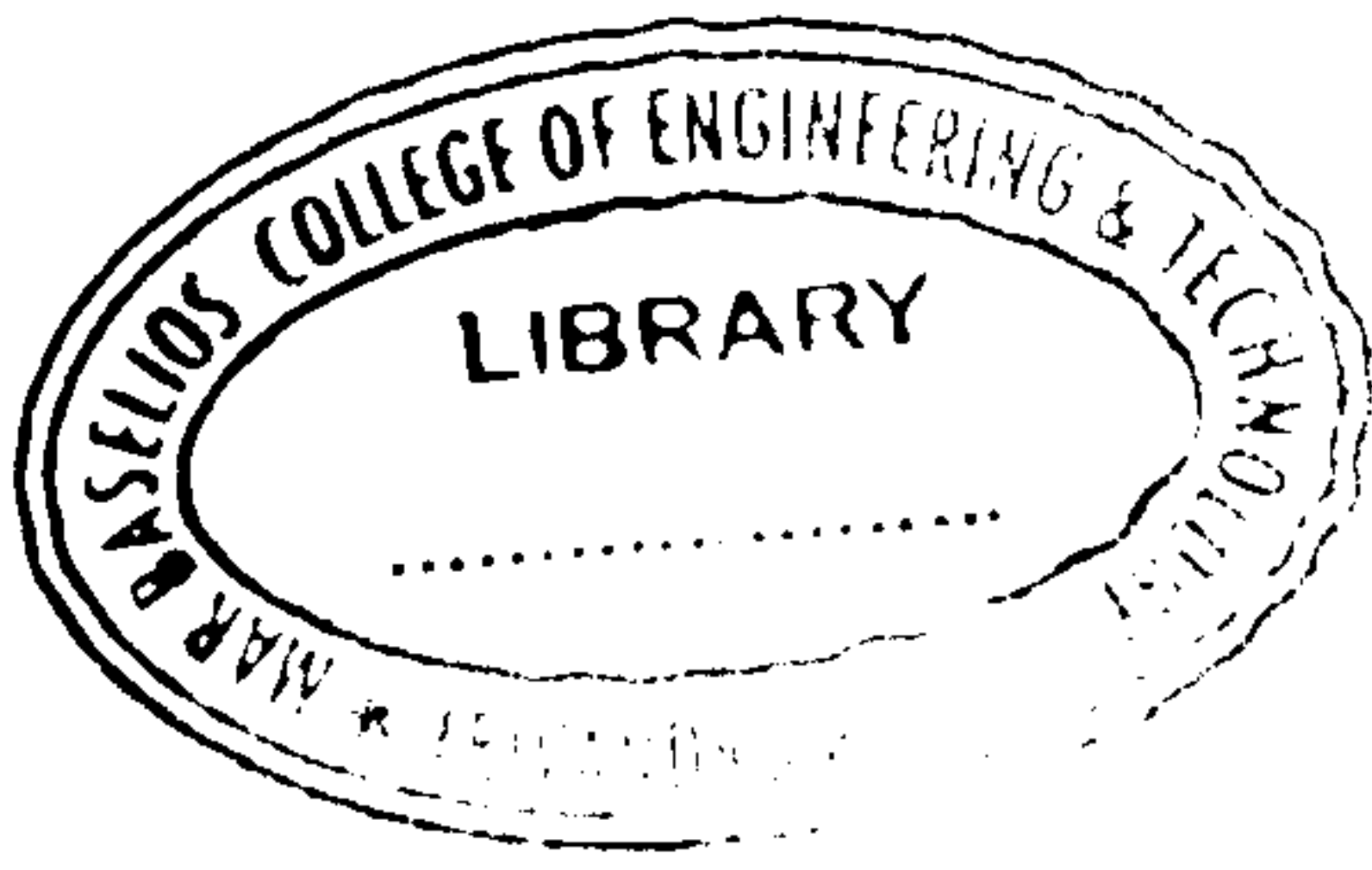


Figure 3.





Module IV

12. (a) Differentiate (i) Book Value and Market Value (ii) Scrap value and Salvage value. (6)
- (b) A building of replacement value of Rs.80,000/- stands on a main road on a leasehold plot. The ground rent per annum is Rs.295/-. The building is of RCC framed structure type. It is estimated that the building will have a future of 70 years. The rent of the building is Rs.500/-per month. The taxes payable are 15% of the gross rent and insurance premium is 0.4% of the gross rent. Assuming suitable figures for other items of the usual outgoings, determine the capitalised value of the property on the basis of 7% net yield. (9)
13. (a) What is depreciation? Explain various methods for calculating depreciation. (7)
- (b) Suggest the reasonable standard rent for a residential house in a housing society purchased on the ownership basis with the following particulars: Cost of land paid to the society Rs.2,00,000/-, Cost of superstructure Rs.6,50,000/-, Amount spend for additional work Rs.50,000/-. Assume 7% as net return on the cost of construction and 4% in the land value. Take sinking fund @3.5%, Repair@1%, Insurance premium@ 0.25%, taxes @30% of gross rent. (8)
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