

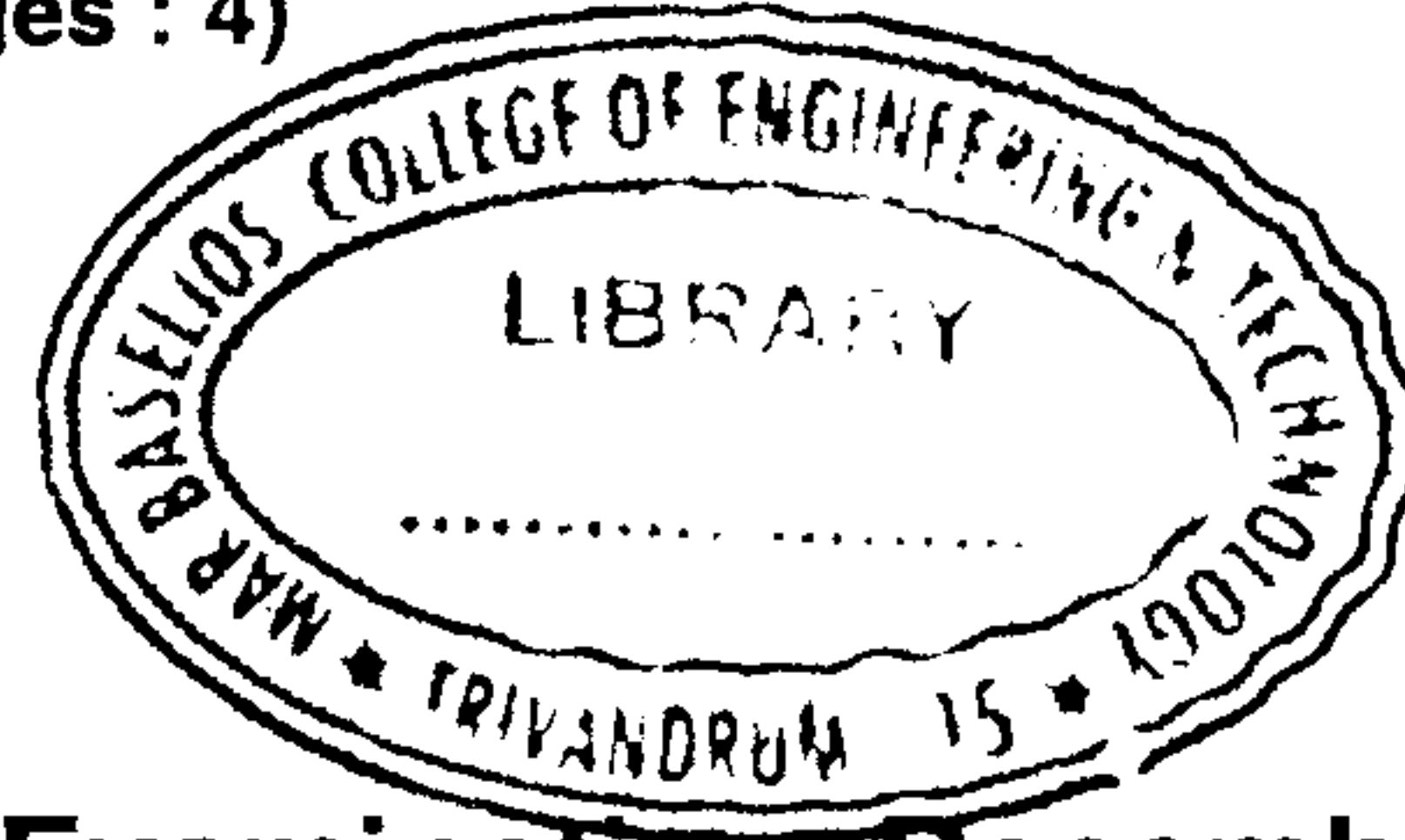


(Pages : 4)

F – 2801

Reg. No. :

Name :



**Eighth Semester B.Tech. Degree Examination, December 2018
(2013 Scheme)**

13.801 : QUANTITY SURVEYING AND VALUATION (C)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions.

1. Write short note on 'Data book' and 'Schedule of rates'.
2. List the different types of estimate. Explain any one in detail.
3. Explain the use of bar bending schedule.
4. Differentiate gross rent and net rent.
5. Differentiate book value and market value. **(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. Analyse the rate for the following items.
 - a) Brick work in CM 1 : 6 using wire cut brick of size 19×9×9. Brick 500 no's @ 7000/1000no's, 0.2 m³ sand @ Rs. 2500/m³, 48 kg cement @ Rs. 7,500/t, 0.7 Mason @ Rs. 800 each, 0.35 Men @ Rs. 600 each, 0.70 Women @ 550 each. **7**
 - b) Reinforcement of RCC work, bent, tied and placed in position. 1q MS rods for grills @ Rs. 5,000/q, 0.45 kg Iron wire for tying grills @ Rs. 60/kg labour, 1.0 Blacksmith for bending cold @ Rs. 800 each, 1.48 Men for tying grills and placing in position @ Rs. 600 each. **8**

P.T.O.



- 7. a) Differentiate general specification and detailed specification. 7
- b) Write the detailed specification of RCC roof slab. 8

Module – II

- 8. Prepare a detailed estimate of quantity of the following item of a building given in the Figure 1
 - i) Earth work excavation
 - ii) Brick work for superstructures
 - iii) Wood work for shuttering of doors
 - iv) Wall plastering
 - v) Flooring. 25
- 9. Prepare a detailed estimate of quantity of the following item of a building given in the Figure 1
 - i) PCC 1 : 4 : 8 for foundation
 - ii) Rubble masonry foundation and basement.
 - iii) Wood work for frame of door and windows
 - iv) Wall painting. 25

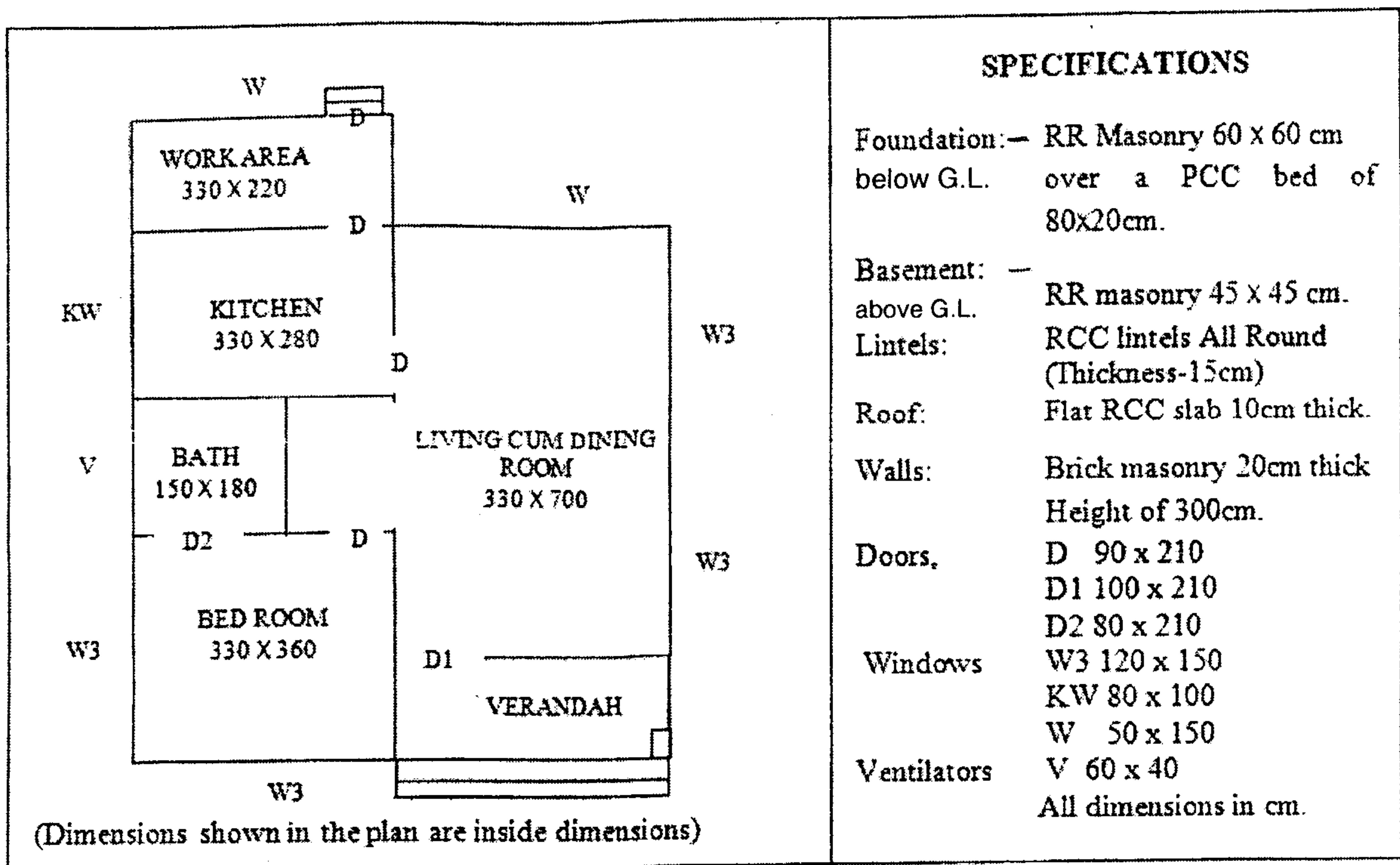
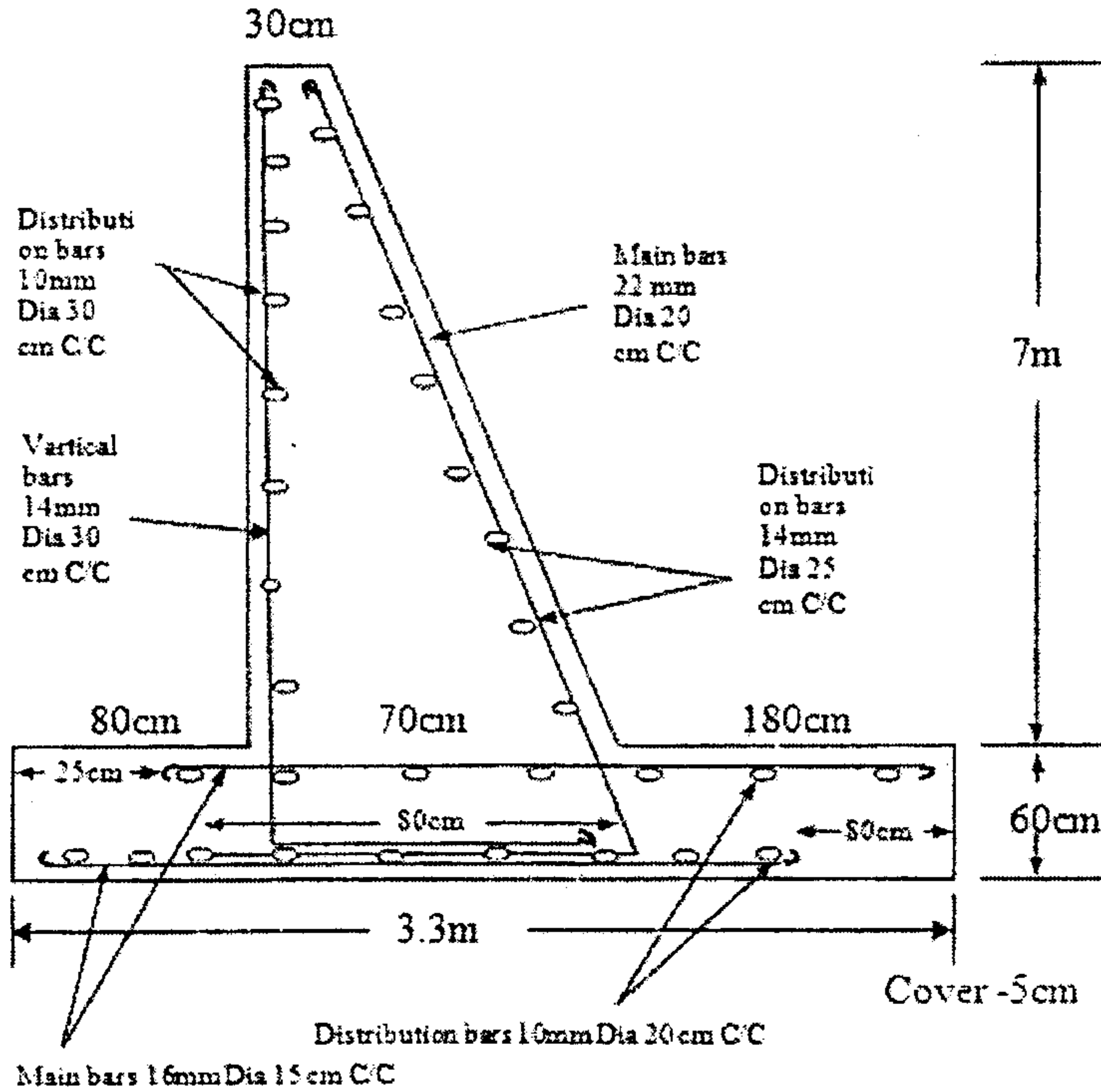


Figure-1 Building Plan

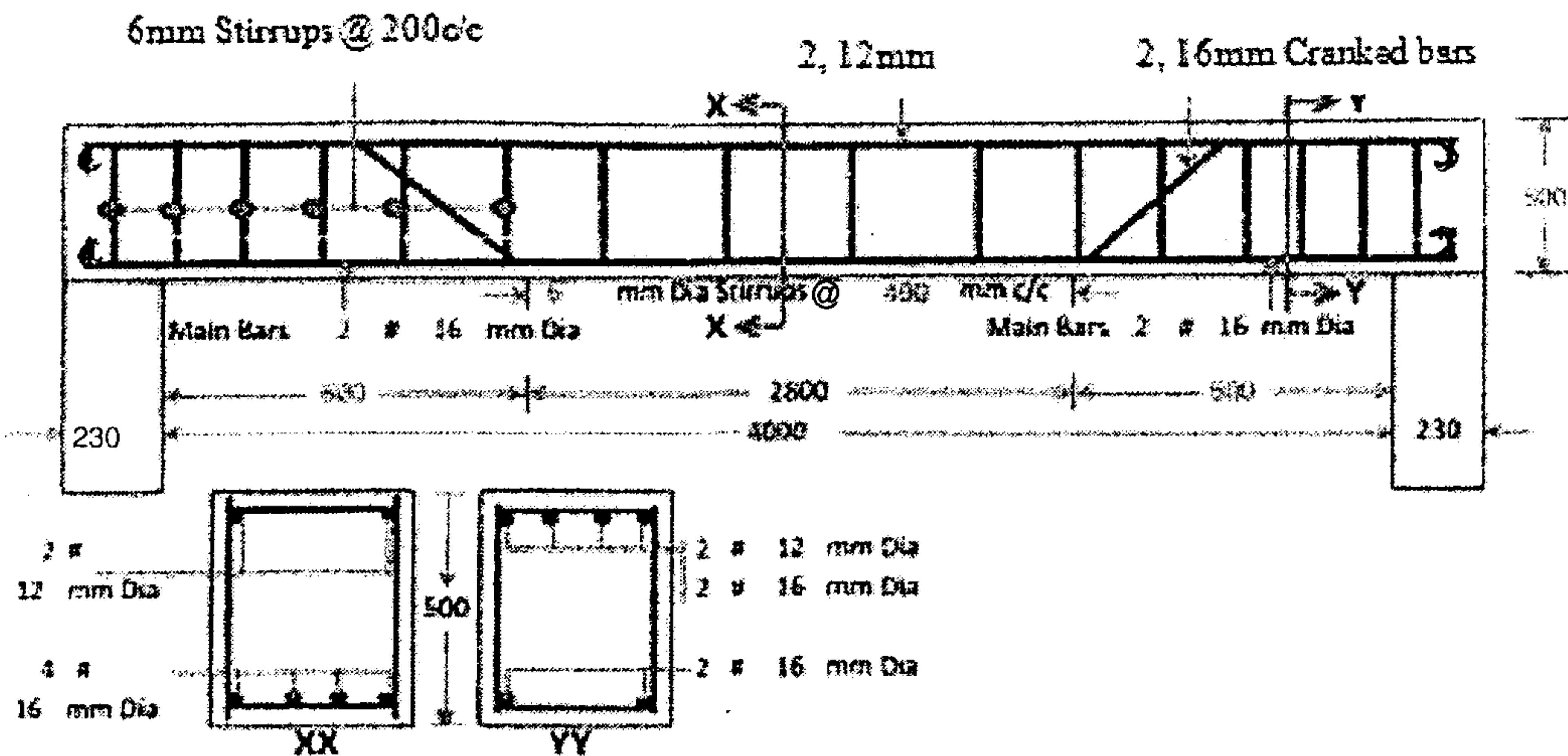


Module - III

10. Prepare schedule of bars and calculate the quantities of material required for constructing a retaining wall shown in figure. Length of retaining wall 25 m. 25



11. Prepare a bar bending schedule of reinforcement of a rectangular RCC beam having clear span 4.0 m and resting on 23 cm thick walls, width of beam 30 cm. Take top and bottom cover as 25 mm and clear cover at ends as 30 mm. 25



**Module – IV**

12. a) Explain the different methods of calculating depreciation. 7
- b) The cost of new building is Rs. 2,50,000/-. Workout the depreciated cost of the building after 10 years, by straight line method and constant percentage method, if the scrap value is Rs. 25,000/-, assuming the life of the building is 50 years. 8
13. a) Explain
- i) Any one method for computing gross rent.
 - ii) Outgoings.
 - iii) Sinking fund. 9
- b) A building is let out for Rs. 6,000/- month, The outgoings of the property is estimated to be 15% of the gross income, calculate the capitalised value by provide an allowance to sinking fund. The present rate of interest is 8% and the life of the property is 50 years. 6

