



Reg. No. :

Name :

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

13.801 : QUANTITY SURVEYING AND VALUATION (C)

Time : 3 Hours

Max. Marks : 100

Instruction : Assume any missing data required.

PART – A

Answer **all** questions.

(5×4=20)

1. Write the purpose and basic principles of specifications.
2. Describe any one type of estimate.
3. Rewrite the importance of bar bending schedule.
4. Recall the methods of calculating depreciation.
5. Summarize the following :
 - i) Salvage value
 - ii) Scrap value

PART – B

Answer **any one full** question in **each** Module.

Module – 1

6. Reproduce the detailed specification for earthwork excavation for the foundation of depth 2 m. (Water table depth is 1.2 m) **15**

OR

7. Workout the unit rate for cement concrete 1 : 2 : 4 using **15**

Materials

Stone ballast 40 mm gauge

Sand (coarse)

Cement (66 bags)

Labour

Mistri

Mason

Mazdoor

Women

Bhisti

Cu m

0.88 @ Rs. 1,000/m³

0.44 @ Rs. 1,600/m³

0.22 @ Rs. 8,000/t

Nos

0.03 @ Rs. 1,000

0.2 @ Rs. 800

1.2 @ Rs. 500

2 @ Rs. 400

0.6 @ Rs. 300

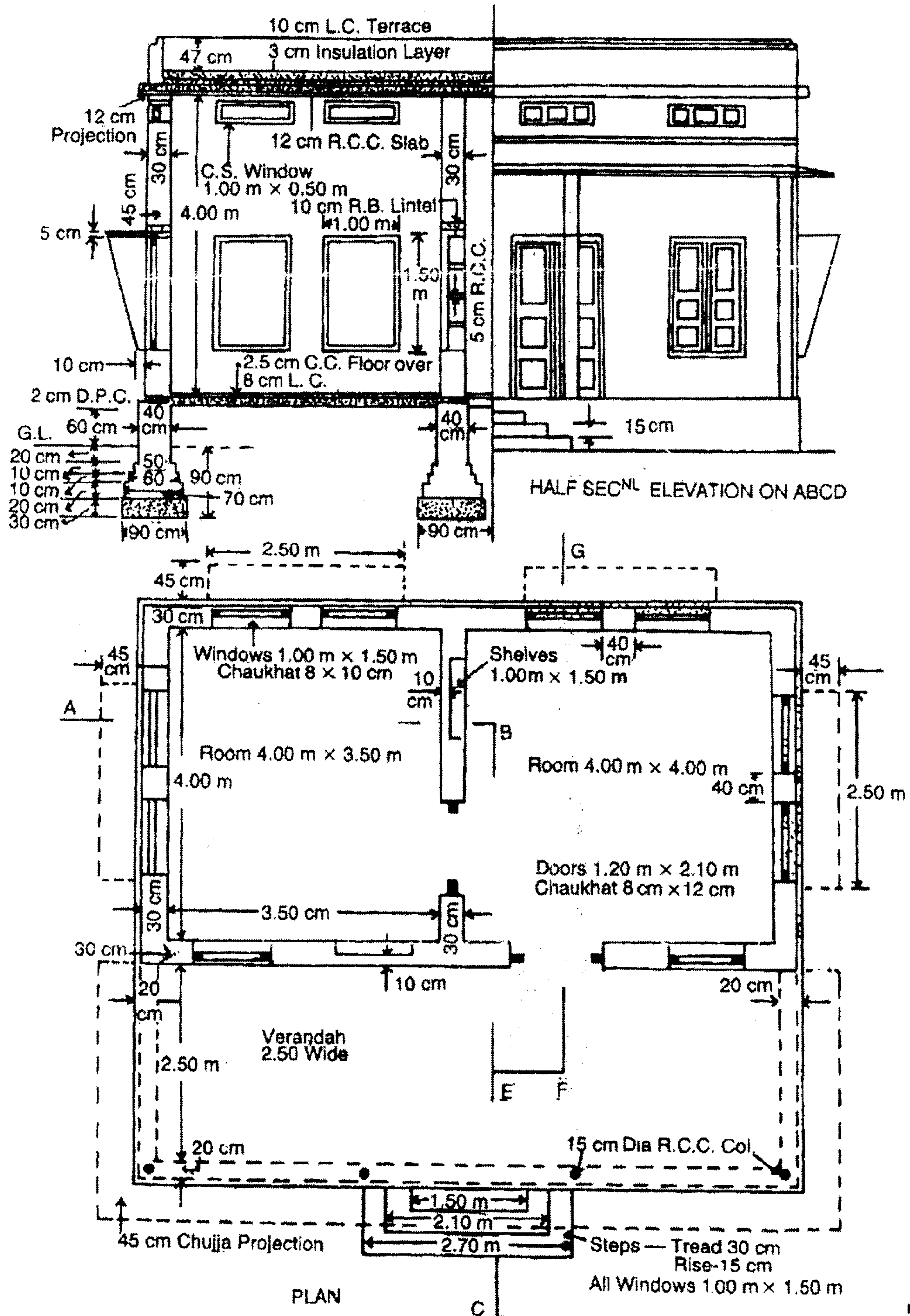
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Module - 2

8. Estimate the quantities of required in the construction of two roomed building. 25
- | | |
|---------------------------------|---|
| 1) Earth work excavation | 3) Plastering in cement mortar in 1 : 3 |
| 2) Brick work in superstructure | 4) RCC work. |

TWO-ROOM BUILDING WITH FRONT VERANDAH

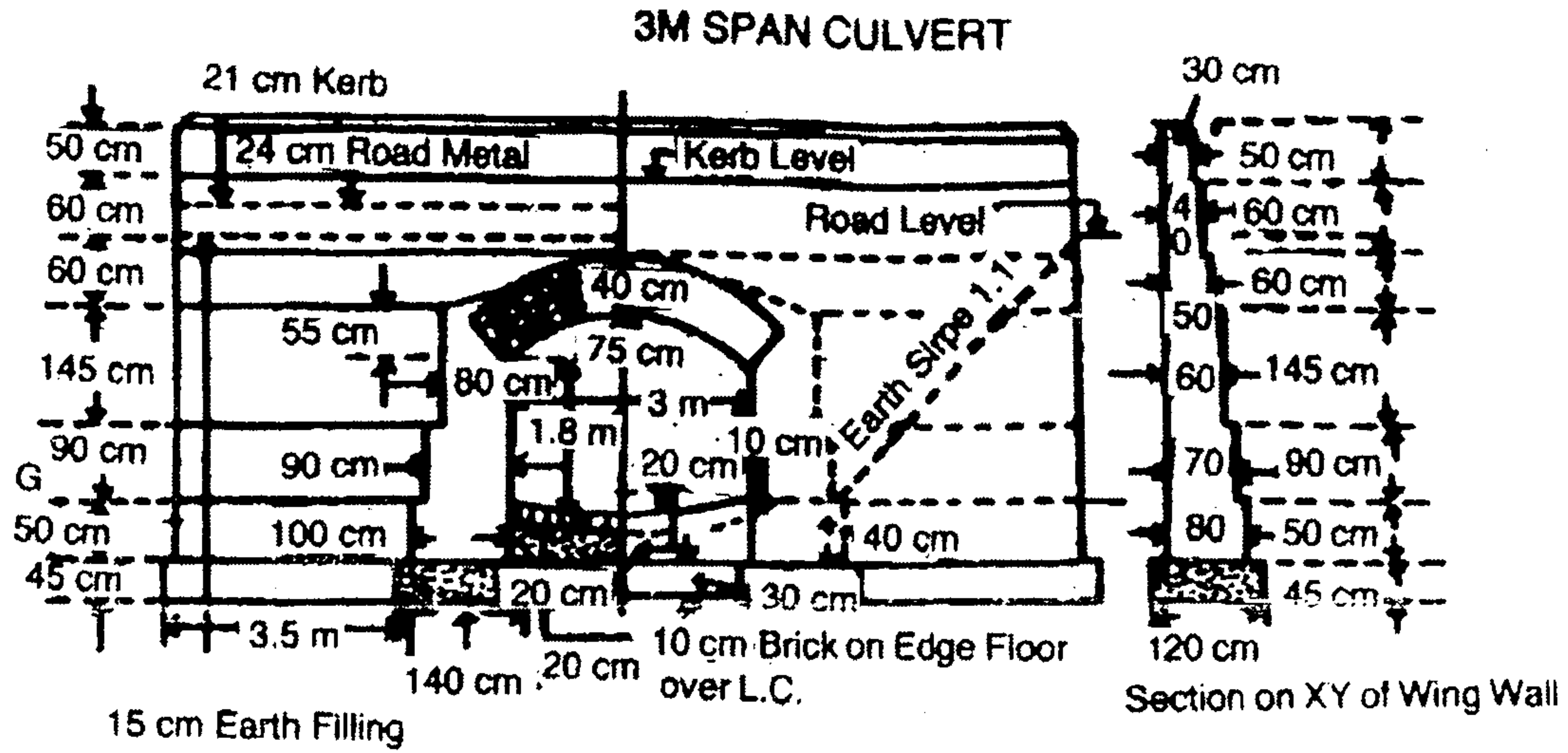


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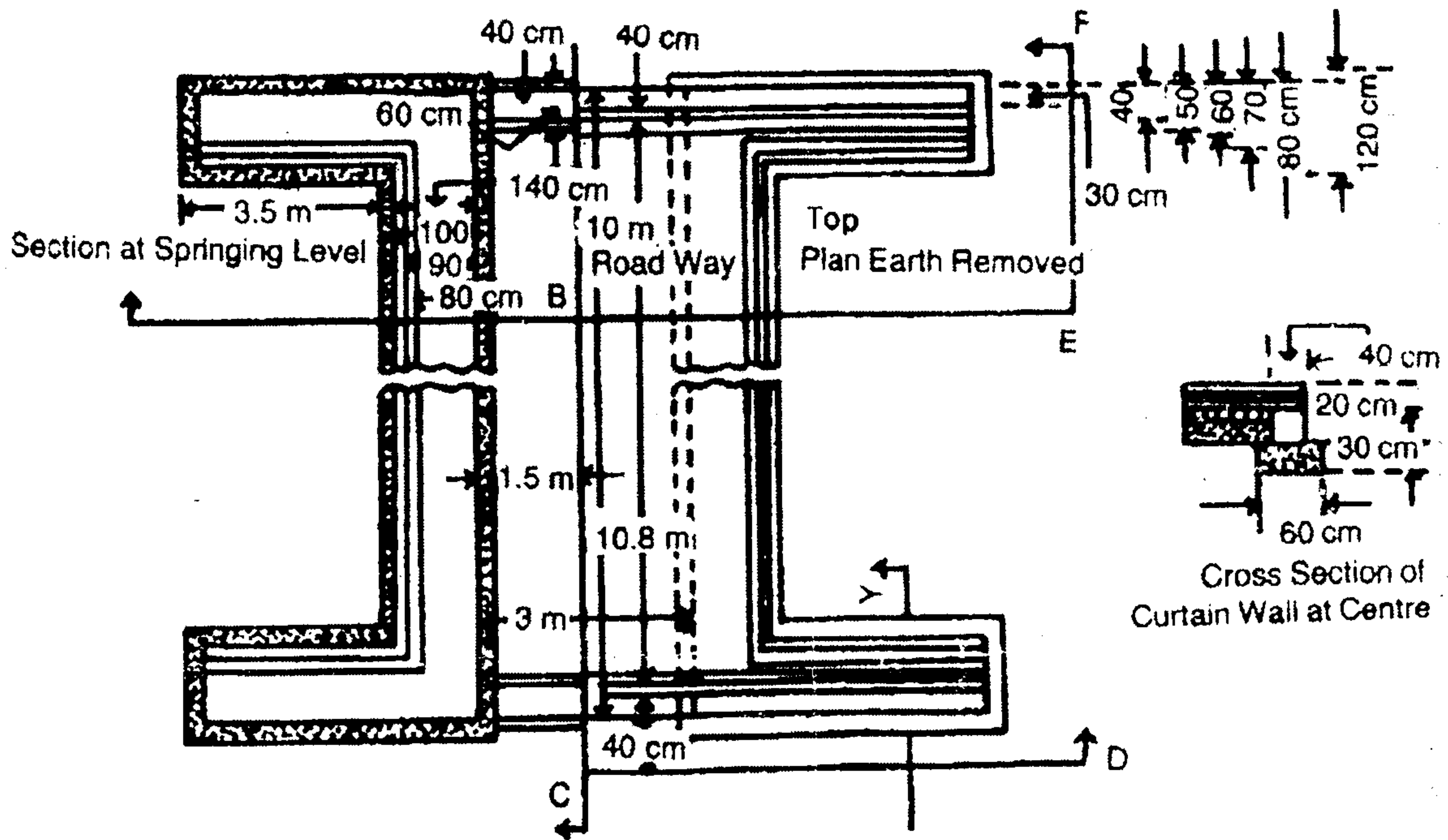


9. Estimate the following quantities for the construction of a 3 m span culvert as per drawings.

25



HALF SECTIONAL ELEVATION ABCD



HALF SECTIONAL PLAN

Estimate the quantities of

- 1) Earth work excavation
- 2) PCC in foundation
- 3) Brick work in cm 1 : 3 in abutment and wing wall

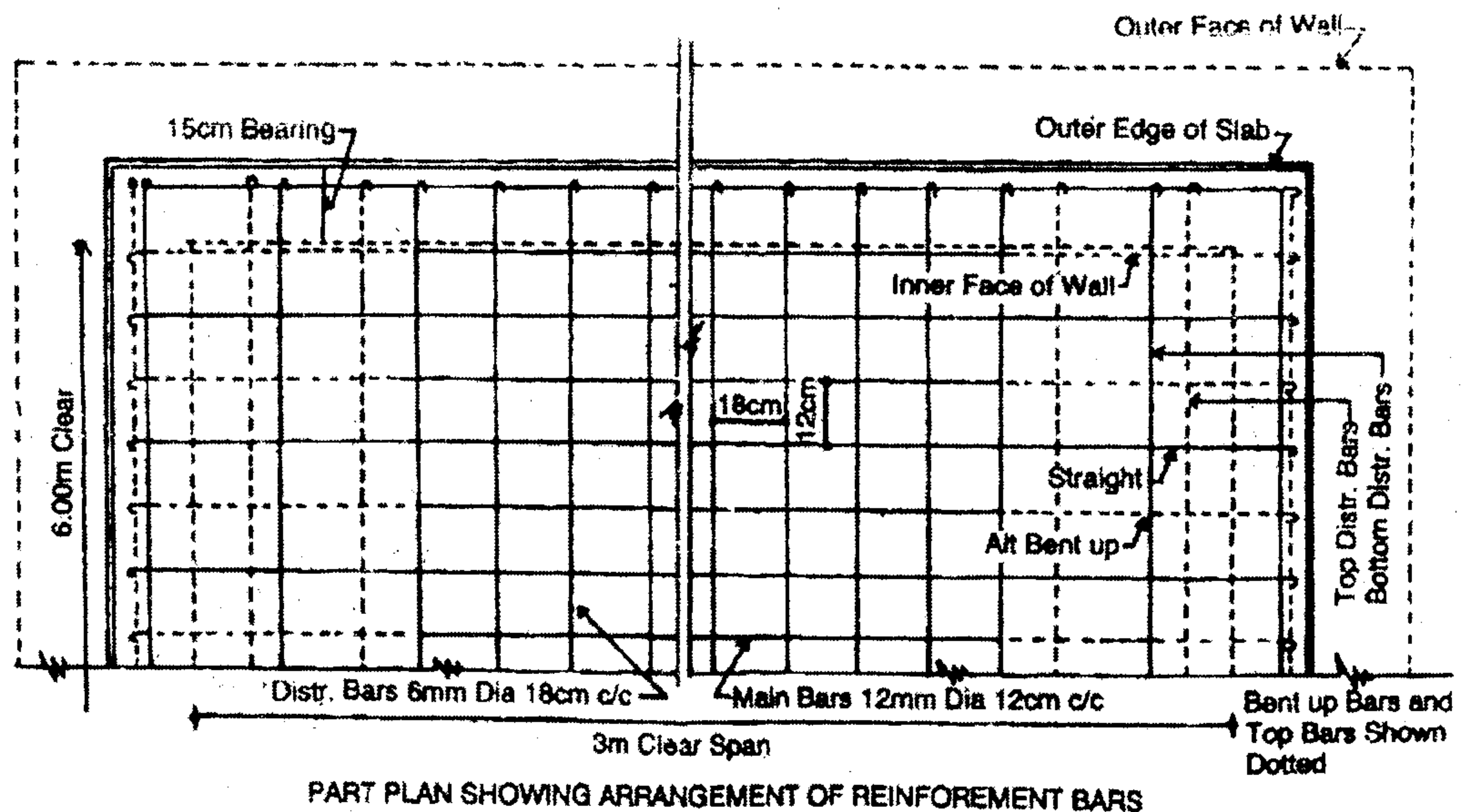
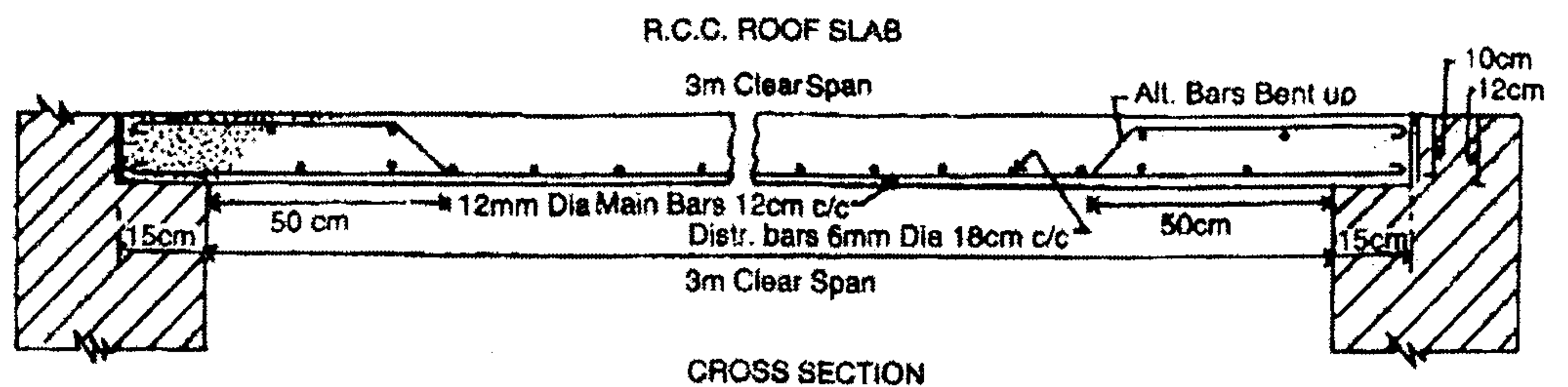


Module - 3

10. Prepare a bar bending schedule of reinforcement of a R.C.C. beam of 4.5 m clear span and 45 cm x 30 cm in section and resting on 30 cm thick walls. Main reinforcement (tension zone) is 4 No., of 16 mm diameter, Hanging bar is 2 No., of 12 mm diameter, stirrups is 10 mm diameter @ 15 cm c/c. 25

OR

11. Prepare a bar bending schedule of reinforcement of a R.C.C. roof slab of 3 m clear span and 6 m long from the given drawing. 25



Module - 4

12. Explain the method of valuation. 15

OR

13. Calculate the standard rent of a Government residential building newly constructed from the following data : 15

Cost of land	Rs, 1,00,000
Cost of construction of the building	Rs. 4,00,000
Cost of roads within the compound and fencing	Rs. 30,000
Cost of electric installation including fans	10% of the cost of building
Municipal House Tax	Rs. 850 per annum
Water Tax	Rs. 650 per annum