CBCS SCHEME

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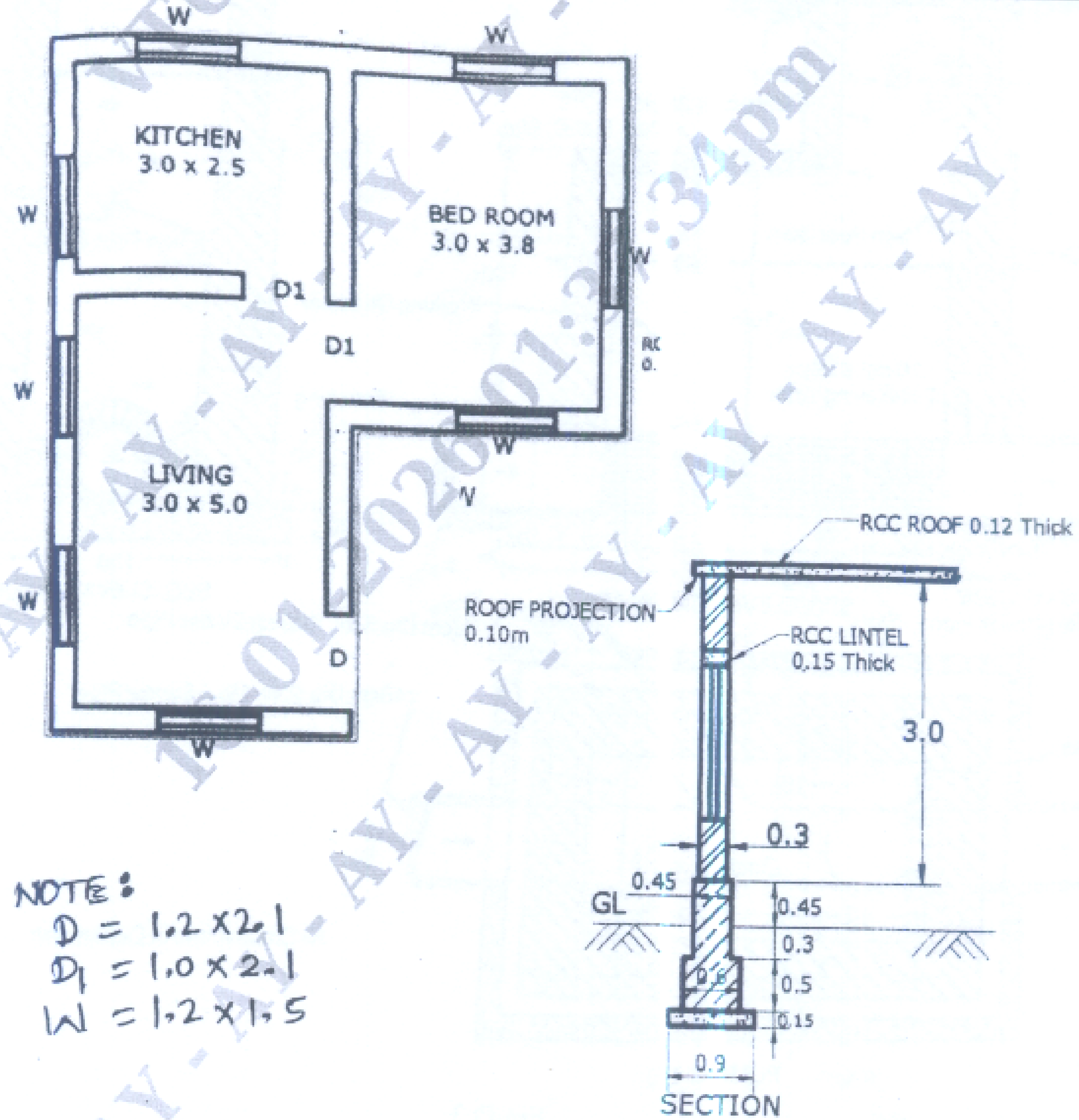
BCV702

Seventh Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026
Estimation and Contract Management

Time: 3 hrs. Max. Marks:100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

		Module – 1	M	L	C
1		The details of two room building is shown in Fig.Q1. Estimate the quantities and cost of the following items of work : i. Earthwork in excavation at 450 Rs/m^3 ii. UCR Masonry in CM 1 : 6 in foundation and plinth at 5000 Rs/m^3 iii. Brickwork in CM 1 : 5 in superstructure of 30 cm wall at 7000 Rs/m^3.	20	L3	CO1



NOTE:
D = 1.2 x 2.1
D1 = 1.0 x 2.1
W = 1.2 x 1.5

Fig.Q1

	OR				
2		What are the different types of Estimate? Explain in detail, any four different types of estimates.	20	L2	CO1
	Module – 2				
3		The details of Manhole is given in Fig.Q.3. Estimate the quantities of the following items : i. Earthwork Excavation in foundation ii. PCC 1 : 4 : 8 for bed concrete iii. BBM in CM 1 : 4 for side walls iv. RCC 1 : 1½ : 3 for cover slab.	20	L3	CO2

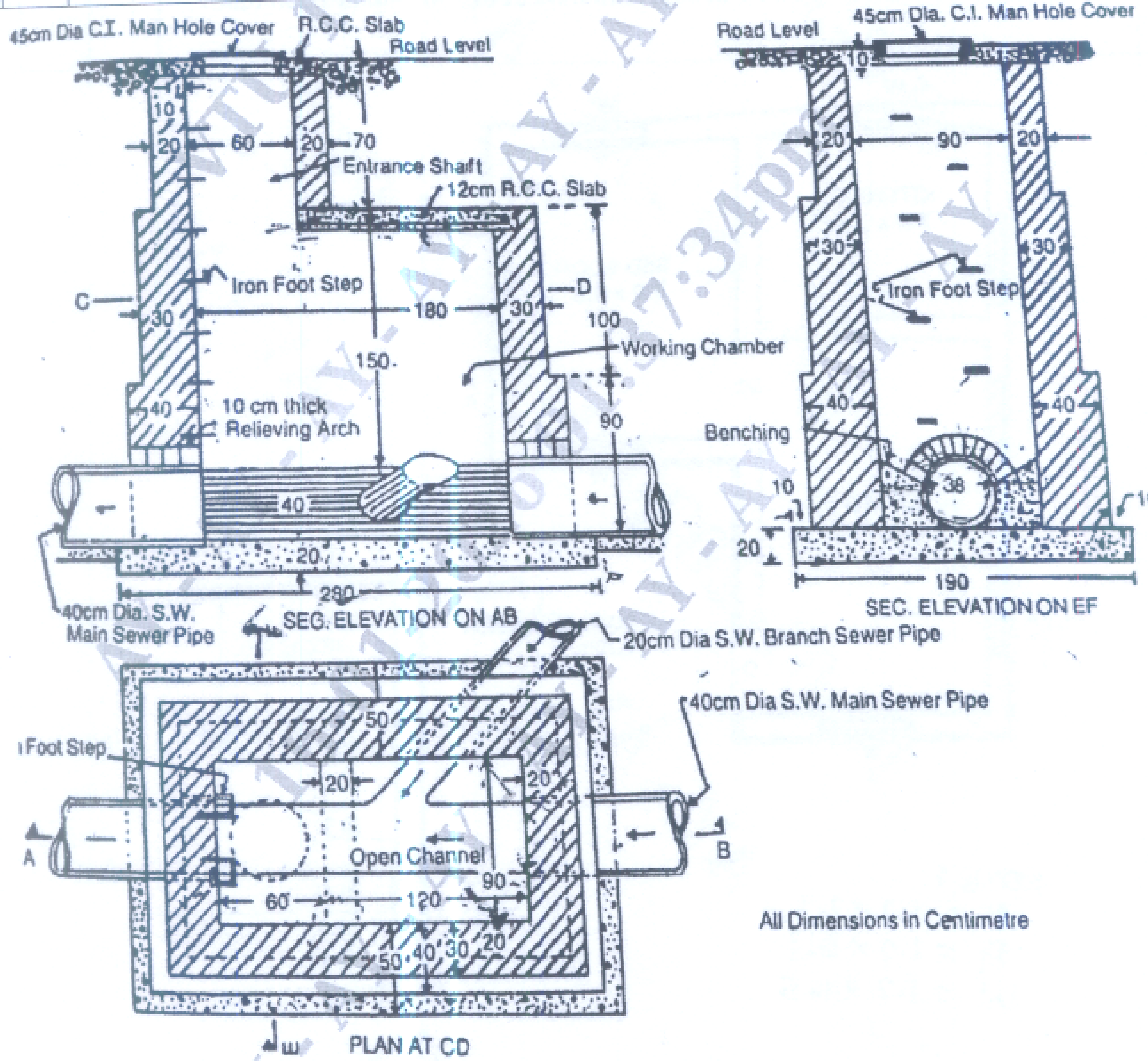


Fig.Q.3

OR

4. Estimate the cost of Earthwork for a portion of road for 400 m length from the following data : Formation width of the road is 10 m, Side slopes are 2 : 1 in banking 1½ : 1 in cutting. — **20 | L3 | CO2**

Station	Distance in meter	RL of Ground	RL of formation
25	1000	51.00	52.00
26	1040	50.90	↓
27	1080	50.50	
28	1120	50.80	
29	1160	50.60	Downward Gradient of 1 in 200
30	1200	50.70	
31	1240	51.20	
32	1280	51.40	
33	1320	51.30	↓
34	1360	51.00	
35	1400	50.60	

Module – 3

5. Write detailed specification for the following : — **20 | L2 | CO3**

i. Earthwork excavation for foundation
ii. First class Brick work in CM 1 : 6
iii. Plastering work in CM 1 : 6, 12 mm thick
iv. RCC 1 : 2 : 4 in roof slab.

OR

6. Carryout the rate analysis for the following : — **20 | L2 | CO3**

i. CC 1 : 4 : 8 for foundation bed
ii. First class brickwork in CM1 : 6 in superstructure
iii. 12 mm thick cement plastering in CM 1 : 6
iv. RCC 1 : 2: 4 for roof slab.

Module – 4

7. List the types of contract. Briefly explain any three types of contract. — **20 | L2 | CO4**

OR

8. Write short notes on : — **20 | L2 | CO4**

i. Administrative Approval
ii. Tender documents
iii. E-Tendering System
iv. Turnkey Operation.

Module – 5

9. Write short notes on : — **20 | L2 | CO5**

i. Liquidated Damages and Bonus
ii. Measurement Book
iii. Breach of Contract
iv. Arbitration.

OR

10. a. Define the terms : — **10 | L2 | CO5**

i) Valuation ii) Book value iii) Depreciation iv) Sinking fund.

b. The building fetches a gross income of Rs. 1500/- per month. Workout the capitalized value on the basis of 6% net yield, if all out going amount is equal to Rs.3000/- per annum. — **10 | L2 | CO5**

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