PCET LIBRARY BANGALORE-49

CBCS SCHEME

USN | | | | | | | | | | |

21CV71

Seventh Semester B.E./B.Tech. Degree Examination, June/July 2026
Quantity Survey and Contract Management

Time: 3 hrs. Max. Marks: 100

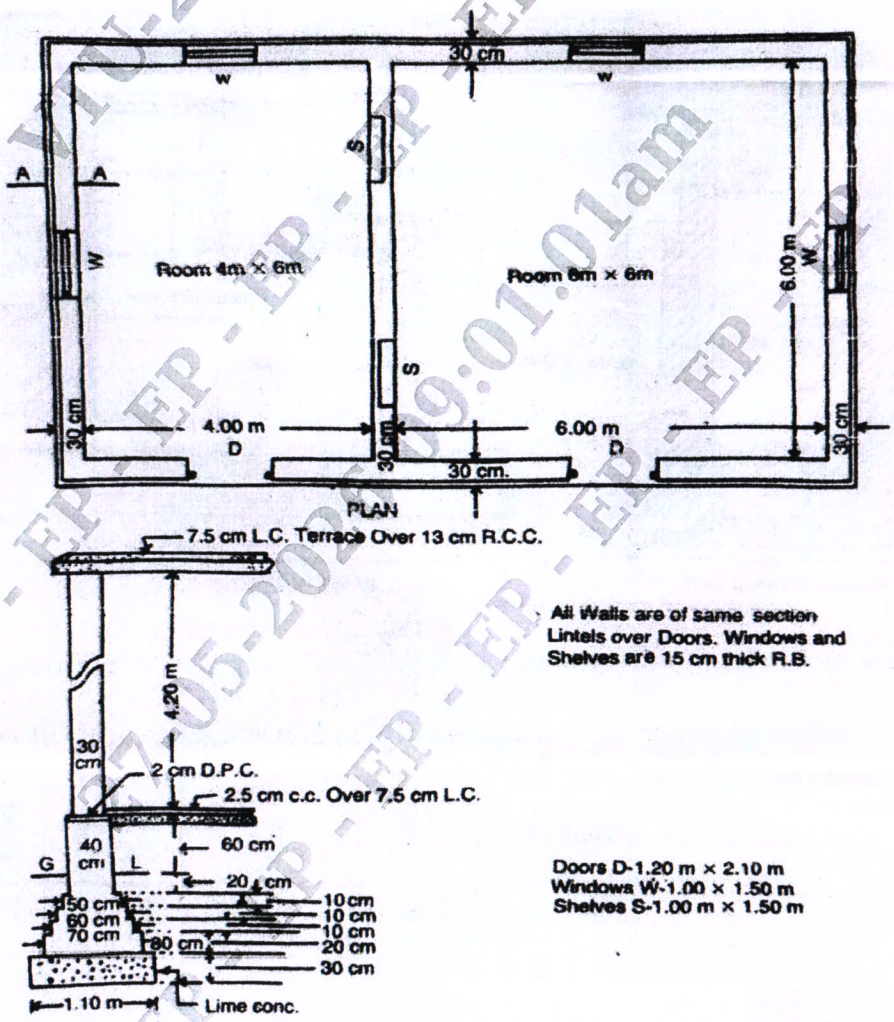
Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. Assume missing data (if any) suitably.

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-1

1 The details of Two room building are shown in Fig. Q1. Estimate quantities and cost of the following items of work,

(i) Earthwork Excavation in foundation at 300 Rs/m^3
(ii) Lime concrete in foundation at 2500/m^3
(iii) First class Brickwork in CM (1 : 6) in foundation and plinth at 1800/m^3
(iv) First class Brickwork in lime mortar in superstructure at Rs.2000/m^3.



CROSS SECTION OF WALL ON A-A

Fig. Q1 **(20 Marks)**

OR

2 What are the different types of Estimates? Explain any four different types of Estimates. **(20 Marks)**

Module-2

3 The details of Man Hole is as shown in Fig. Q3. Estimate the quantities for the following items of work :

(i) Earthwork Excavation in foundation
(ii) Cement concrete 1 : 3 : 6 floor and foundation
(iii) First class Brickwork with CM 1 : 4
(iv) 20 mm thick cement plaster 1 : 3 in Floor and Channel.

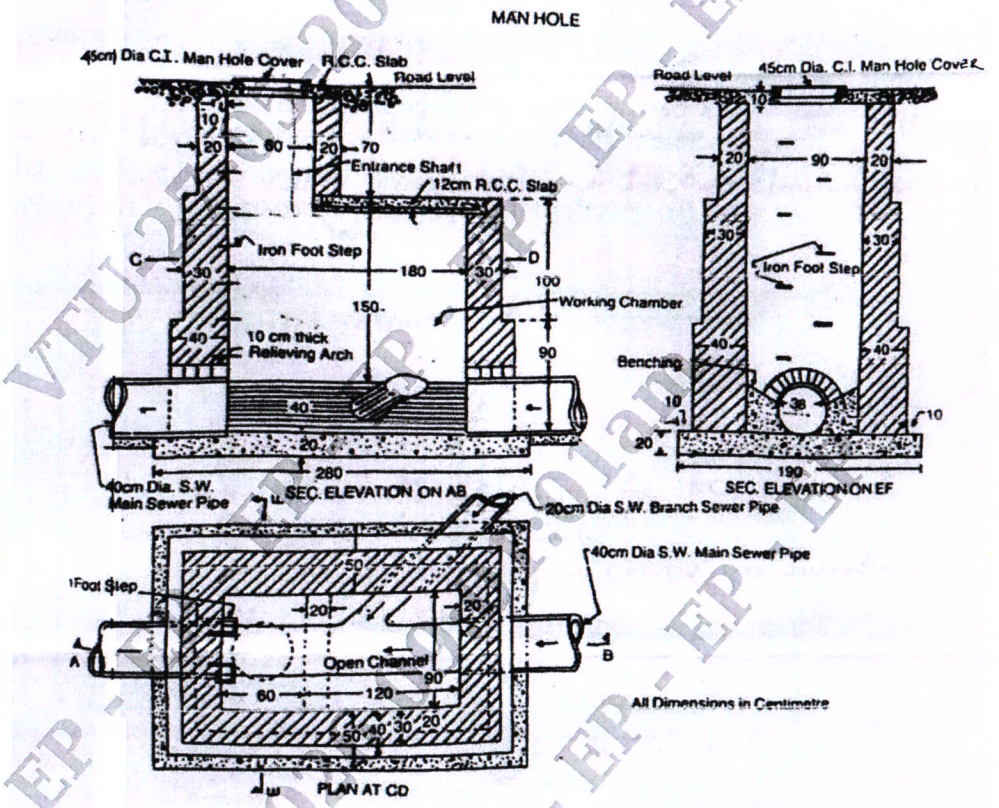


Fig. Q3 **(20 Marks)**

OR

4 Estimate the Quantity of earthwork in Banking and Cutting by Mid sectional Area Method for a portion of road from the following data :
Formation width of road is 10 m. Side slope 2 : 1 in Banking and 1.5 : 1 in cutting.

Distance in 'm'	0	100	200	300	400	500	600	700	800	900	1000	1100	1200
R.L. of Ground	114.00	114.60	115.00	115.20	116.10	116.50	118.00	118.25	118.10	117.80	117.75	117.80	119.20
R.L of Formation	115.0	Upward Gradient of 1 in 200 Upto 600 m						Downward Gradient of 1 in 400					

(20 Marks)

Module-3

5 Write Detailed Technical specification for the following :
- (i) 12 mm Thick plastering for walls with CM 1 : 6
- (ii) Random Rubble stone masonary.
- (iii) Earthwork Excavation for foundation.
- (iv) Mosaic/Terrazzo Flooring. **(20 Marks)**

OR

6 Write Detailed Technical Specification for the following :
- (i) First class Brick Masonary for super structure CM 1 : 4.
- (ii) Painting work
- (iii) Pointing
- (iv) RCC work in roof slab **(20 Marks)**

Module-4

7 Carryout the Rate Analysis for the following :
- (i) Cement Concrete CC 1 : 2 : 4 for RCC works
- (ii) RCC $1 : 1\frac{1}{2} : 3$ for Roof Slab.
- (iii) 1st Class Brick Masonary in CM 1 :6 for superstructure.
- (iv) Random Rubble Stone Masonary **(20 Marks)**

OR

8 Carryout the Rate Analysis for the following :
- (i) 20 mm thick DPC with CM 1 : 5
- (ii) 12 mm plastering work with CM (1 : 6)
- (iii) 2.5 cm Cement Concrete Flooring (1 : 2 : 4)
- (iv) Coursed Rubble Stone Masonary **(20 Marks)**

Module-5

9 What are the Different Types of Contracts? Explain any Four types of contracts. **(20 Marks)**

OR

10 Explain the procedure of Tendering and Award of work's in civil Engineering Projects? **(20 Marks)**

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