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

USINO

Seventh Semester B.E. Degree Examination, Dec.2023/Jan.2024 Quantity Surveying and Contract Management

Time. 3 hrs.

1

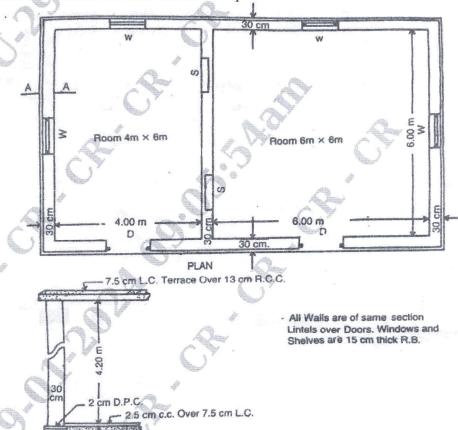
Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.

2. Assume missing data (if any) suitably.

Module-1

- The detail of two room building are shown in Fig.Q.1. Estimate quantities and cost of the following items of work:
- i) Earthwork excavation in foundation at 300 Rs/m³.
- ii) Lime concrete in foundation at 2500/m³
- iii) First class Brickwork in CM (1:6) in foundation and plinth at 1800/m³.
- iv) First class Brickwork in Lime mortar in superstructure at Rs.2000/m³. (20 Marks)



CROSS SECTION OF WALL ON A-A

Doors D-1.20 m \times 2.10 m Windows W-1.00 \times 1.50 m Shelves S-1.00 m \times 1.50 m

Fig.Q.1

OR

- What are the different types of Estimates? Explain any four different types of Estimates.
 (20 Marks)
 - Module-2
- The details of man hole is as shown in Fig.Q.3. Estimate the quantities for the following item of work:
 - i) Earthwork excavation in foundation
 - ii) Cement concrete 1:3:6 floor and foundation
 - iii) First class brick work with CM 1:4
 - iv) 20mm thick cement plaster 1:3 in floor and channel.

(20 Marks)

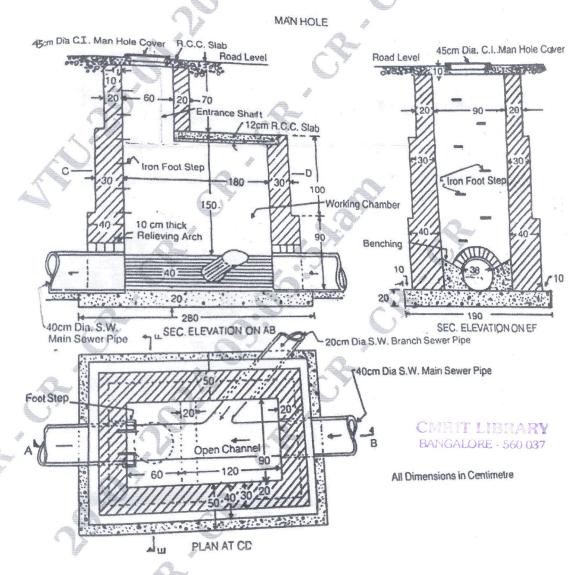


Fig.Q.3

OR

Estimate the quantity of earthwork in banking and cutting by mid sectional area method for a portion of road from the following data:

a portion of road nom the results.														
Distance	in							4	**					100
'm'								3						0
			0	0	300	400	500	009	700	800	900	1000	100	1200
- 12		0	100	200	3(4	5()9	7	8	6	=		
R.L	of					1								
ground		0	0	00.	.20	0	0.0	00	25	0	80	75	80	20
8-1-1-1		14.00	14.60	5.0	5.2	6.1	6.5	∞ .	∞:	∞.	7.8	7.	_	19.20
		=		=	=	=	=	11	=		Ξ	11	1	
R.L	of	115.0	Upward gradient of 1 in 200 upto						Downward gradient of 1 in					
formation	_		600n		77				400	w.				
Torritation			55011		>									

Formation width of road is 10m. Side slope 2:1 in banking and 1.5:1 in cutting.

Module-3

- Write detailed technical specification for the following:
 - i) 12mm thick plastering for walls with CM1:6
 - ii) First class brick masonary for super structure CM1:4
 - iii) Earthwork excavation for foundation
 - iv) Mosaic/Terrazo flooring.

(20 Marks)

(20 Marks)

OI

- 6 Carryout the rate analysis for the following:
 - i) Cement concrete CC 1:2:4 for RCC works.
 - ii) R.C.C. $1:1\frac{1}{2}:3$ for roof slab.
 - iii) 1st class BBM in CM1:6 for superstructure.
 - iv) 20mm thick DPC with CM1:5.

(20 Marks)

Module-4

What are the different types of contract? Explain any four types of contracts?

(20 Marks)

OR

8 Explain the procedure of tendering and award of works in civil engineering projects.

(20 Marks)

Module-5

- 9 Write short notes about any four of the following
 - i) Performance security
 - ii) Breach of contract
 - iii) Mobilization and equipment advances
 - iv) Contract management
 - v) Liquidated damages.

CMEIT LIBRARY

(20 Marks)

OR

BANGALORE - 560 037

10 a. Explain the methods of valuation.

(10 Marks)

b. A building of replacement value of about Rs.7,00,000/- stands on a main road on a leasehold plot. The ground rent per annum is Rs.2950/-. The building is of R.C.C. framed structure type. It is estimated that the building will have a future life of 70 years. The rent of the building is Rs.4000/- per month. The taxes payable are 18% of the gross rent and insurance premium is 0.5% of the gross rent. Assuming suitable figures for other items of the usual outgoings. Determine the capitalized value of the property on the basis of a 5% net yield. The S.F coefficient for the replacement of the capital is 70 years at 3% is 0.0043. (10 Marks)

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