USN			LIBRARY 18ENG7
	Seventh Semester B.Ar	ch. Degree Examination	i, June/July 2023
	Specification, Qu	antity and Costing	of Buildings
Tin	ne: 3 hrs.		Max. Marks: 100
	Note: Answer any FIVE full qu	estions, choosing one full quest	tion from each module
		contrasting one jun quest	
1	a. Define Estimate. "Estimate	Module-1 s never the actual cost but it i	is approximate cost" Explai
-	briefly.		(10 Marks
	b. List and explain the factors aff	fecting estimation of building.	(10 Marks
		OR	
2	Explain the following types of		
	<ul><li>i) Preliminary estimate</li><li>ii) Detailed estimate</li></ul>		
	iii) Revised estimate		
	iv) Supplementary estimate		
	v) Item rate estimate.		(20 Marks
		Module-2	
3		plain the different types of contr	N 2 9
	b. What is a tender document? Li	ist the essentials of a tender.	(10 Marks
	· · · · · · · · · · · · · · · · · · ·	OR	
4	Write short notes on: i) EMD and Security retent	tion	
	ii) Measurement book and i		
	iii) Safety norms to be follow		
	iv) Administrative and techr	lical sanction.	(20 Marks
		Module-3	
5		explain the sub-head costs taken in actors affecting the rate analysis.	
	b. Elst and explain the different la	actors affecting the fate analysis.	(10 Marks
	95	OR	
6	Carry out the rate analysis for t i) Earthwork excavation fo	the following: r foundation in ordinary soil.	
	ii) PCC bedding 1:4:8 for fo		
	iii) Coursed rubble masonry	in CM 1:6.	
	iv) Painting plastered surfac	e including preparation of surfac	ce. (20 Marks
	S. S	1 of 3	
	en e		
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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.

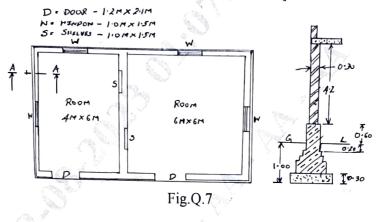
## <u>Module-4</u>

Estimate the quantities for the following items of work for a two room building shown in Fig.Q.7.

- i) Earthwork excavation in foundation.
- ii) PCC bed concrete 1:4:8.
- iii) First class brick masonry in CM 1:6.

[Both long wall and short wall method and centre line method].

(20 Marks)

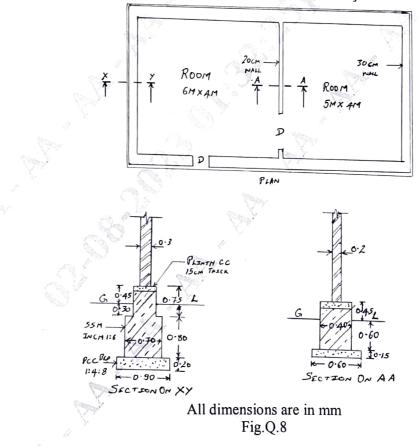


OR

- Estimate the quantities for the following items of work for a two room building shown in Fig.Q.8.
  - i) Earthwork excavation in foundation
  - ii) PCC bed concrete 1:4:8.
  - iii) SSM in CM 1:6 for foundation.

[Both long wall and short wall method and centre line method].

(20 Marks)



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## Module-5

Estimate the quantity of earthwork for a portion of road for 300m length from the following data. Formation width is 10m, side slopes in banking is 2:1 and side slopes in cutting is 1.5:1.

Distance	0	30	60	90	120	150	180	210	240	270	300
RL of	101	100.0	100.5	100.7	100.8	100.6	100	00.8	00 2	00 1	08.5
ground		100.9	100.5	100.7	100.8	100.0	100	33.0	99.2	<i>99</i> .1	90.5

The formation level at the first chainage is 102. The road is in downward gradient of 1 in 50 upto distance of 120m. Afterward gradient changes to 1 in 100. (20 Marks)

## OR

- 10 Explain the following:
  - i) Certificate of virtual completion
  - ii) Liquidated damages
  - iii) Ra bill and final bill
  - iv) Payment certificate
  - v) Security deposit.

(20 Marks)

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