3RD SEM./CIVIL ./ 2024 (W)

TH4 Estimation & Cost Evaluation-I

Full Marks: 80		Cks: 80 Answer any five Questions including Q No.1& 2 Figures in the right hand margin indicates marks	e- 3 Hrs
1.		Answer All questions	2 x 10
	a.	Define circulation area of a building.	
	b.	Outline the format of details of measurement form.	
	c. d.	Write down the units of following items (i) DPC (ii) Reinforcement (iii) plastering (iv) wood work in chowkhat Calculate the weight of a 20 mm diameter bar of 1m length	
	e.	Outline the hierarchy of Engineering Dept. in State Govt.	
	f.	Outline the hierarchy of Engineering Dept. in State Govt. Define Salvage value.	
	g.	When Centre line method of estimating is preferred.	
	h.	What do you mean by revised estimate.	
	i. j.	What is the multiplying factor for painting in both side surface of a panelled and flush door? What do you mean by "Schedule of Rate".	
2.		Answer Any Six Questions	5 x 6
	a.	Find out quantity of dry materials required for 200 sqm of Cement Concrete	
	b.	flooring in 1:2:4 proportion. Estimate the quantity of Wood work in shutter for a Door of size 1.2mX 2.0m and for a Window of size 1m x 1.5 m. Size of chowkhat 8cmX12cm. Assume any other suitable data.	
	c.	Find out the cost of 4 cum of brick work in foundation and plinth (1:6) with 20cm x 10 cm x 10 cm bricks with suitable rates of material and labour as per PWD Orissa Rate.	
	d.	Briefly outline the duties and responsibilities of a Junior Engineer.	
5201-202	e.	Write short notes on (a) Administrative approval (b) Workcharged establishment	2.5 x 2
	f.	Calculate quantity of earthwork and Brickwork from Figure 1.	

Calculate the quantity of dry materials required for 12 mm thick cement

mortar plastering (1:6) in wall for 200 sqm.

g

Answer Any Three Questions

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3	a	Find out the quantities of following item of work from Figure 2 using Centre Line method (a) Brick work in foundation and plinth (b) Brickwork in superstructure Find out quantity of first class brickwork in cement mortar from Figure 3	10
	b	Briefly explain the types of estimate.	5
5	a	Find out the quantities of following item of work from Figure 4 (a) Earthwork in excavation (b) Brickwork in foundation and plinth (c) Brickwork in superstructure Analyse the rate for 10 cum of cement concrete 1:5:10 in foundation.	3+3+4 7
	b	What do you mean by depreciation.	3
7		Write short notes on (a) Technical sanction	2.5 x 4
	5	Write short notes on (a) Technical sanction (b) Plinth area (c) Lead and Lift (d) Contigencies	
		21-20/2-3	

- (a) Technical sanction
- (b) Plinth area
- (c) Lead and Lift
- (d) Contigencies

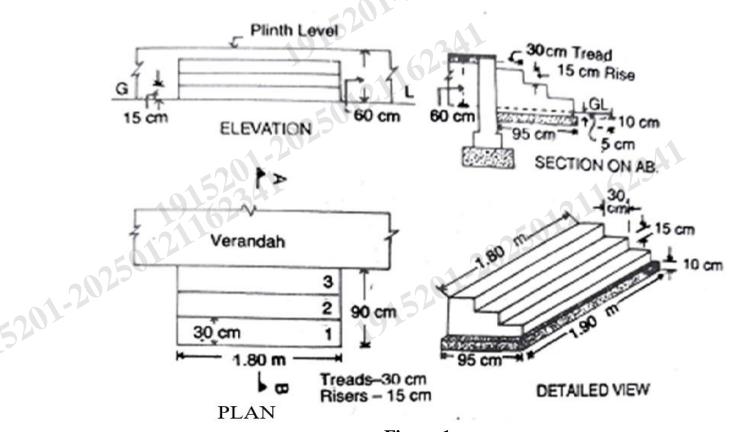


Figure 1

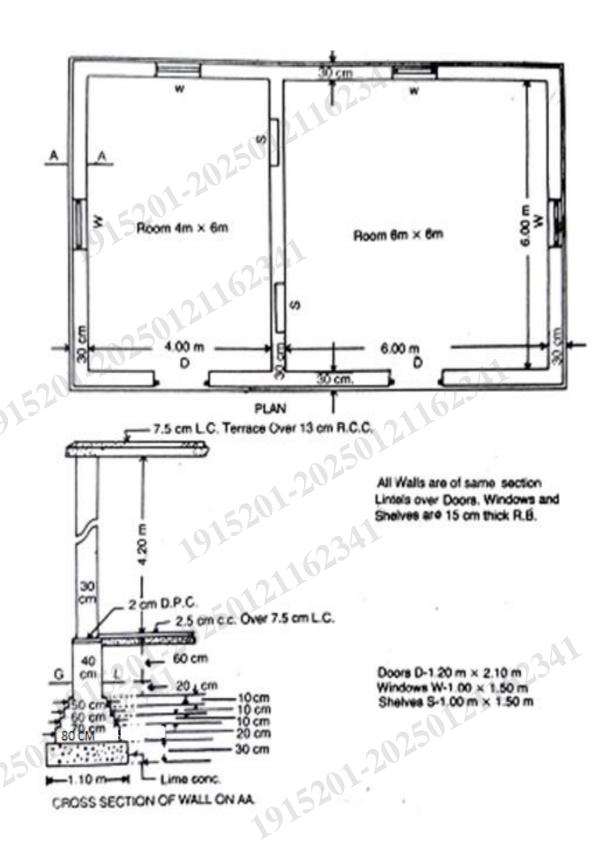


Figure 2

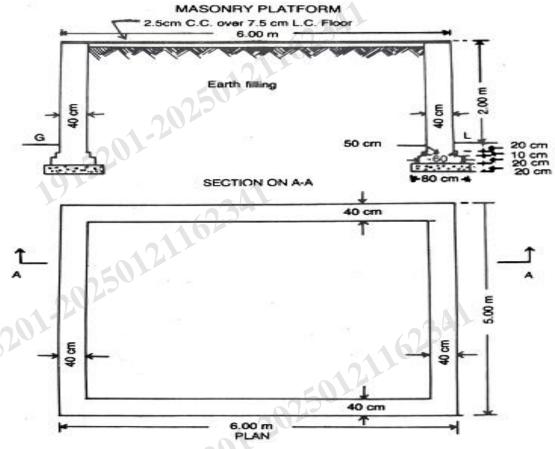


Figure 3

