

Unit	Topic	Period	Total period	Grand total
Introduction	Estimate, Purpose and Types of estimate	2	6	89
	Plinth area, Floor area, Circulation area, Carpet area, Covered area	1		
	Plinth area calculation, Cubic rate methods of approximate estimate	1		
	Units and modes of measurements as per IS 1200	1		
	Accuracy of measurement for different item of work	1		
Quantity Estimate of Building	Short wall long wall method and centre line method	1	30	
	Deductions in masonry, plastering, white washing, painting.	2		
	Multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills	1		
	Estimation of superstructure wall of a single room building of 5m × 4m using long wall short wall method.	1		
	Estimation of a two roomed building using long wall short wall method	2		
	Estimation of single room and two roomed building using centreline method	1		
	Estimation of Residential building using long wall short wall method.	5		
	Estimation of Motor Garage.	4		
	Estimation of a single room building having front verandah.	6		
Analysis of Rates and Valuation	Estimation of a two roomed building with front verandah.	7	30	
	Analysis of rates of cement concrete	1		
	Analysis of rates of brick masonry in Cement mortar.	1		
	Analysis of rates of stone masonry in Cement mortar.	1		
	Analysis of rates of cement plater.	1		
	Analysis of rates of white washing.	1		
	Analysis of rates of artificial stone flooring.	1		
	Analysis of rates of tile flooring.	1		
	Analysis of rates of concrete flooring.	1		
	Analysis of rates of RCC with centering and shuttering.	1		
	Analysis of rates of reinforcing steel.	2		
	Analysis of rates of paintinf of doors and windows.	1		
	Analysis of rates of all items of motor garage.	6		
	Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system (Concept of C.P.W.D./Railways provisions)	2		

	Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolesce, methods of valuation.	6	
Administrative Set up of Engineering Organisations	Organisation of Engineering Department & Duties of engineers.	2	9
	Duties and responsibilities of Engineers at different positions /levels.	3	
	Terms in organisation.	4	
Revision	Estimation of Residential building using long wall short wall method.	3	14
	Estimation of a single room building having front verandah.	3	
	Estimation of a two roomed building with front verandah.	4	
	Dry material calculation and analysis of rates.	3	
	MCQ type question discussion.	1	