TIME: 3 Hours

$${\rm Reg.N_0}$.$ EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, JUNE 2010

Maximum: 100 Marks

CE.04.801 - Quantity Surveying and Valuation

Answer ALL questions

Schedule of rate of Kerala P.W.D. and Standard Data book of Kerala P.W.D. are permitted

ī (a)	Enumerate different types of estimates used in Civil Engineering works?	$(8 \times 5 = 40)$	
(b)	Distinguish between centre line method and long/short wall methods of estimation.		
(c)	Why specifications for building materials and construction?		
(d)	How you will estimate earth work for irrigation canals?		
(e)	How do you prepare a conveyance statement?	. 3	
(f)	Prepare a bar bending schedule for a cantilever R.C.C. beam.		
(g)	Why valuation of property?		
(h)	Distinguish between sinking fund and depreciation.		
2 (a)	From the plan and section given in Figure 1, estimate the quantities of the following items of work: i. Earth work ii. Brick work in CM 1:6 for superstructure iii. R.C.C. (M20) for lintel and roof slab	(30)	
	(OR)		
(b)	From the plan and section given in Figure 1, estimate the quantities of the following items of work:	(30)	
	i) Random Rubble masonry work in CM 1:8 for foundation and basement	-	
	ii) Plastering in CM 1:4 for walls		
	iii) Plastering in CM 1:3 for roof bottom and sunshade		
200	(3)		
3 (a)	Prepare abstract and detailed estimate of doors and windows for the	(10)	
	building given in Figure 1.		

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	(b)	Write down the detailed specification for the following items:	(10)
		i) R.C.C. columns with M20 concrete and Fe415 steel	
		ii) First class brick work for superstructure	
	4 (a)	i) From first principle, analyze the rate per unit based on your local	(10)
		rates for R.C.C. work for beams in ground floor.	
		ii) Prepare a bar bending schedule for a typical R.C.C. one way slab	
		(OR)	5
	(b)	i) From first principle, analyze the rate per unit based on your local	(10)
	7.3	rates for Brick masonry in cm 1:6 in first floor.	**
a		ii) Prepare a bar bending schedule for a typical isolated R.C.C. column	
1.4		footing.	*
9	- 14	# P	
	5 (a)	An old building has been purchased at a cost of Rs. 8,00,000 excluding the	(10)
	19 Mgg 97	cost of land. Determine the amount of annual sinking fund at 7 percent	See e
		interest, assuming the future life of the building as 20 years and the scrap	
		value of the building as 10 percent of the cost of purchase	
		(OR)	
	(b)	Compare various methods of determining value of property.	(10)

Figure 1

