



BTS (C) VIII - 03 - 507 (D)

B.Tech. Degree VIII Semester Examination May 2003

CE 802 QUANTITY SURVEYING AND VALUATION

(1999 Admissions)

Time: 3 Hours

Maximum Marks: 100

(Assume suitable data if necessary)

- I. Calculate the quantities of the following items of work of the building shown in figure 1 (Figure in page No. 4).
 - (i) Earth work excavation for foundation
 - (ii) Cement concrete 1:4:8 in foundation for bed concrete.
 - (iii) R.R in CM 1:6 for foundation and basement.
 - (iv) Plastering with CM 1: 4, 12mm thick over walls.
 - (v) Flooring with cement concrete 1:4:8 using 40mm brocken stone 75mm thick.
 - (vi) Ridge tiles set in cement mortar. (40)
- II. (a) Prepare a detailed estimate of the quantities of concrete and steel of R.C.C slab of overall dimensions 4m x 8.5m having an overall depth of 120mm. 10mm diameter main bars are spaced at 120mm centres with alternate bars bend up at 1/5 span. 6mm diameter distribution steel is provided at 150mm centres. Cross section of slab is shown in figure 2. (Figure in page No. 4) Prepare bar bending schedule separately. (20)
 - (b) Calculate the quantity of earth work for a portion of a road from the following data:

Formation width of road =10m Side slope 2:1

Assume there is no transverse slope.

 Use prismoidal formula.

 Distance in m
 0
 100
 200
 300
 400
 500
 600

 R.L of ground
 114.50
 114.75
 115.25
 115.20
 116.10
 116.85
 118.0

 R.L of formation
 115
 Upward gradient
 1 : 200

(Turn over)

over) 🛚 🗷

(20)

<u>L</u>	(a)	What are the objects of specification?	(6)	v		Write short notes on the following:	
	(b)	The rate for item is varied from site to site. Why?	(4)			(i) Valuation	
	(c)	Write down the specification for Random rubble				(ii) Sinking fund	
		masonry.	(5)			(iii) Depreciation	
	(d)	Write down the specification for painting doors and	•			(iv) Outgoings	(20)
		windows.	(5)			OR	
_		O Ř		VI	(a)	What is meant by market value? Explain in detail the	
	·	Determine the rate for standard unit of teakwood plan				which will influence the same.	(8
		and framed work for frames of doors, windows, ventile			(b)	An old building has been purchased by a person for	
		etc from the following details. Provide 10% for contra	ctors			s.5000000. Calculate the coefficient of sinking fund,	
		profit.				of sinking fund and yearly instalment of sinking fund	
		Cost of materials and labour charges for 10dm ³ scan	tling			future life of the building is 25 years, rate of interest i	
						and scrap value is 10% of the cost of purchase.	(12)
		Materials:		,			
•		14.4dm ³ Teak log at Rs.396/10dm ³				-	
				VII.	(a)	Describe the various types of outgoings.	(5
		Labour:			(b)	Mention the various methods used to compute the	
						depreciation of property. Explain in detail any two methods.	(10)
		0.02 man to put log in position and to assist		•	(c)	Explain the terms "market value" and "Book value".	(5)
		sawyer at Rs.91/each.			(C)	OR	(3)
		000 2 1 (140 10 2 1		VIII	(a)	Explain:	•
		0.33 m² sawing (at 4.3 sawyer per 10m² sawing	5)		()	(i) Present value	
		Sawyer at Rs.123/each.				(ii) Years purchase	
	. 194	Deduct 2 94m3 cost of outcomble at 250 to a culture				(iii) Fair value	
		Deduct 3.8dm ³ cost of outer slab at 25% log value.				(iv) Fancy value	(8)
		Teak wood planed and framed work				·	
					(b)	A coloniser intends to purchase a land of 100000m ² a	
		Materials:				located in the suburb of a big city to develop it into p	
						of 700m ² each after providing necessary roads and pa	
		10.5dm³ teak wood scantling				and other amenities. The current sale price of small p	
				•		in the neighbourhood is Rs.50/m ² . The coloniser was	
		Labour:				net profit of 18%. Work out the maximum price of the at which he may purchase the land assuming proper	
						for deductions,	(12)
		0.22 carpenter at Rs.134/each.				tot deductions,	(12)
		0.10 man at Rs.91/each.	(20)			· ·	
		Contd	2			Contd	4,
		COING	J.				