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ET-521(D)

B.Tech. Civil (Construction Management)

Term-End Examination

00352

December, 2016

ET-521(D): QUANTITY SURVEYING AND VALUATION

Time: 3 hours Maximum Marks: 70 Note: Attempt any five questions. All questions carry equal marks. Discuss the various factors influencing the 1. (a) accuracy of estimate in building construction. (b) How are bills of quantities made? Give a step-by-step procedure. 7 2. A school building is proposed to be (a) constructed for 400 students. Calculate the plinth area. It is given that Carpet area per student: 1.4 m². (i) 20% of the built-up area will be (ii) occupied by the corridors, verandah, lavatories, staircases, etc. 15% of the built-up area will be (iii)

occupied by walls.

	(b)	Write			of	mea	asure	ment	of	the	771
		following items: 7×1									/×1
		(i)	Sand filling								
		(ii)	Painting Grouting of cracks								
		(iii)									
		(iv)	Spur	n yarn							
		(v)	Mas	s concr	ete						
		(vi)	Glaz	ing							
		(vii)	Peln	nets							
3.	(a) Explain the role of computers in preparing										
		building estimates. 7									
	(b)	cificat	ions	o							
		"Rein	forced	l Brick	-Wo	rk".					7
1 .	Cal	culate	the c	ost of	1 n	n ³ o:	f R.C	.C. 1	: 2	: 4	
	Calculate the cost of 1 m ³ of R.C.C. 1:2:4 (1 cement: 2 coarse sand: 4 stone aggregate)										
	work in beams.									14	
5.	(a)	Discu		he v		us	facto	rs a	affec	ting	
		valua	tion o	of land.							7
	(b)		•	plain							
		Urba	n Lan	d (Cei	ling	and	Regu	lation	1) Ac	t.	7

6. A building fetches a gross rent of ₹ 15,000 per month. Assuming 30% outgoing for taxes, 20% for repairs and maintenance and 5% be set aside to accumulate the cost of building, determine its capitalized value at 6% interest per annum.

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7. Write short notes on the following:

 $4 \times 3 \frac{1}{2} = 14$

- (a) Cost Index
- (b) Abstracting of Quantities
- (c) Years Purchase Method
- (d) Acquisition of Land
- 8. Differentiate between the following: $4 \times 3 \frac{1}{2} = 14$
 - (a) Revised and Supplementary Estimate
 - (b) Scrap and Salvage Value
 - (c) Technical and Material Specification
 - (d) Depreciation and Obsolescence