No. of Printed Pages: 3

ET-521(D)

B.Tech. Civil (Construction Management)

Term-End Examination

December, 2014

00380

ET-521(D): QUANTITY SURVEYING AND VALUATION

Note: Attempt any five questions. All questions carry equal marks. Use of scientific calculator is

permitted.

- 1. (a) Explain in brief, the steps adopted in preparing a Preliminary Estimate.
 - (b) How is bill of quantities prepared? Give a step-by-step procedure for the same.
- 2 (a) A school building is proposed to be constructed for 700 students. Calculate the plinth area. It is given that
 - (i) carpet area per student = 2.0 m^2 .
 - (ii) 20% of the built-up area will be occupied by the corridors, verandah, lavatories, staircases, etc.
 - (iii) 15% of the built-up area will be occupied by walls.

7

7

7

	(b)	Write	the	units	of	meas	suren	ent	of	the		
		following:									7×1	
		(i)	Brick edging									
		(ii)	Varnishing									
		(iii)	Rock excavation									
		(iv)	Skirting									
		(v)	Tar felting									
		(vi)	Sand filling									
		(vii)	Spur	ı yarn								
3.	(a)		escribe the role of computers in managing									
			uilding construction project.									
	(b)			s the detailed specification of "first rick work".								
		Class D	TICK V	VOIK.							7	
4.	Calc	Calculate the cost of 1 m ³ of providing and										
	laying cement concrete 1:5:10 (1 cement:											
	5 coa	arse sand : 10 stone aggregate) in foundation										
	and	d plinth. Assume the rate as per present										
	market.										14	
5.	(a)	What										
	different methods of valuation of properti								ies			
		and ex	plain	any on	e m	ethod	l .				7	
	(b)	Discuss briefly the significance of "case laws"										
		in valu	ation	of a pr	ope	rty.					7	

6. A building costing ₹ 20,00,000 has been constructed on a freehold land measuring 200 m² recently in a small town. Prevailing rate of land in the neighbourhood is ₹ 500 per m². Determine the gross rent of the property per month if the expenditure on all the outgoings including sinking fund is ₹ 59,000 per annum.

14

Also assume net return

- (a) on building @ 10% on the cost of construction.
- (b) on land @ 5% on the cost of land.
- 7. Write short notes on the following:

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

- (a) Revised Estimate
- (b) Cost Index
- (c) Depreciation
- (d) Acquisition of land
- 8. Differentiate between the following:
 - $4\times 3\frac{1}{2} = 14$
 - (a) Unit method and Cube method of estimation
 - (b) Scrap and Salvage value
 - (c) Layout and Preliminary plan
 - (d) Depreciation and Obsolescence