Time:	No: 117DE JAWAHARLAL NEHRU TECHNOLOGICAL UNIVER B. Tech IV Year I Semester Examinations, November ESTIMATING AND COSTING (Common to CE, CEE) 3 Hours This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all consists of 5 Units. Answer any one full question from each 10 marks and may have a, b, c as sub questions.	ASITY HYDERABAD December - 2017 Max. Marks: 75	
P6	P6 PART-A P6	(25 Marks)	
e) f) g) h) I	What is meant by a detailed estimate? Define Abstract estimate What is Lead and Lift? For an embankment 90m long of uniform gradient when the lend and 1.8m at the other end the width of embankment at to vertical to 1 Horizontal. Calculate the quantity of earth womethod. What is S.O.R.? Why it is periodically revised? Explain in brief about M Book. What information should a contract document contain? Define 'Earnest money deposit (EMD)'. Why and when are the Define salvage value. Office the different types of specifications.	p is 8m and its side slopes 2 ork by Mean sectional area [3] [2] [3] [2] [2] [2] [3] [2] [2	
	PART-B	(50 Marks)	
si th a) b) c)	repare a preliminary estimate for a framed four storied office of 250 sq m for each floor. Assume areas occupied by conditions etc as 25% of built up area and that occupied by wall e same. The following details may be used for estimation Built-up area rate for ground floor (excluding foundation) = I Built-up area rate for 1st and 2 nd floor = Rs1,650/- per sq m Built-up area rate for 3rd floor = Rs1,800/- per sq m Extra for foundation = 20% of superstructure cost. Extra for special architectural treatment = 1% of building cost.	ridor, verandah, lavatories, Ils and columns as 8.5% of Rs1,500/- per sqm	***************************************
g) h)	Extra for water supply and sanitary = 7% of building cost. Extra for electrical installation = 8% of building cost Extra for contingencies = 4% of overall cost Extra for other source = 5% of building cost. OR		erest.

P6 P6 P6 P6 P6 F

3.a)	Enumerate different methods for estimating building works along with a suitable	example	
b)	Prepare a detailed estimate of a septic tank with soak pit for 25 users.	[5+5]	
) (4.	Explain in detail the methods for calculating earthwork for roads along with the and demerits.	[IV]	
5.	Estimate the Quantity of earth work for a portion of road from the following data	1	
Chaina	ge 0 1 2 3 4 5 6 / 8	<u> </u>	
RL	7.50 7.70 7.50 7.25 6.85 6.95 6.70 6.45 6.30	5.95	
96	The formation level at Chainage 0 is 8.0 and having falling gradient of 1 in 10 width is 12m and side slopes 1½ horizontal to 1 vertical. Assuming the direction is in level, calculate the quantity of earth work. By using Trapez Prismoidol formula Take 1 chain = 20m.	ti alisveise	
6.a) b)	Explain briefly the various factors affecting the rate analysis. Differentiate between 'Analysis of rates' and 'Schedule of rates'. OR	[5+5]	
7.a)	Describe the procedure for the calculation of rate per unit cu.m of RCC work slabs etc., 1:2:4 work excluding steel but including centering, shuttering, be binding.	mame and	
b)	Describe the procedure for the calculation of rate per unit cu.m of Random Rumasonary in foundation and plinth.	[5,5]	
8. 9.	Explain in detail the different types of civil engineering contracts with their dements. OR Write a short note on the following with respect to contract document. a) Security deposit. b) Retention money	merits and	
	c) Earnest money	[10]	
	d) Tender and Contract.	F. O.	;·····
) (10.a)	Explain the following method of valuation of a building along with an example. i) Valuation based on profit		
	ii) Depreciation method of valuation.	[5+5]	
b)	Explain the general specification for a first class building. OR	-	
11.a) b)	What are the different purposes for which the valuation is undertaken? Explain the following method of valuation of a building along with an example. i) Rental method of valuation ii) Direct comparison with the capital value.	[5+5]	
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P6 P6 P6 P6 P6 P6 F