Code:No: 117DE

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## ..... JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, November/December - 2016 ESTIMATING AND COSTING

(Common to CE, CEE)

Max. Marks: 75 Time: 3 Hours

Note: This question paper contains two parts A and B....

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

## PART- A

1/11/1 /1									
	: Pilkaili	White.		: : :	(25 Marks)				
1 -5 1	What is the order of boo	king dimension	15?	Samp 100	[2]				
1.a)	What are the voluminor	is units of mans	urement?		[3]				
b)			urcincii:		[2]				
c)	What is lift in earthwork	k calculations?		10	[3]				
d)	What is volume of fully	excavated trape	ezoidal cross sec	ction canal?					
e).	What is a contingent ch	arge?	.***	,****, .**	,[2]				
fy	Write short notes on an	alysis of rate.			[3]				
σ)	What is unit weight of	6mm diameter	steel bar?		[2]				
B)	Explain lump sum cont				[3]				
n)					[2]				
1)	What is years purchase	(° , 1 1.	ما ما معالم المعالم ا	and aloce brick					
j)	What is difference bety	een first class t	orickwork and se	Cond class offer	WOIK: [5]				

(**50** Marks)

Estimate quantities for a Low income group house (LIG) using long wall and short wall method a) earthwork in excavation b) lime concrete in foundation c) 1st class brickwork in foundation d) plastering. Assume suitable data. ..[10]

OR

- Explain in detail about all available estimates for a civil engineering structures.
- Prepare a detailed estimate for earth work for a portion of a road from the following data. The formation level at starting point is 120m. Formation width of road is 10m and side slopes of banking are 2:1. The road is in downward gradient of 1 in 150 up to 120m and ..... then the gradient changes to 1 in 100 downward: [10]

Distance in m	0	30	60	90	120	150	180	210	240	270	300
R. L. of Ground		114.75	115.25	115.20	116.10	116.85	118.20	1,18.25	118.10	117.80	117.25

OR

Explain in detail about the three cases of canal sections with neat sketches. 5.

[10]

6	6. Prepare a	malýsis of rates	for the following and the following the foll	item of work.	nit 1 cu. m.	26	r.
	Assume	materials and lat	ors in the market	t rate.		[10]	
2. 	7. Prepare a Gement of Assume	[10]					
	explain t	he importance of	steel for any type f bar bending sch	edule?		[10]	
i.	9. Explai	n in detail about	contract docume	nt.		[:10]	
	10.a) Explai	n method of valun capitalized val	nation based on prue of a building of	rofit with an illus considering sinki OR	strative example ng fund.	[5+5]	
	11, <sub>.</sub> Explai	n detailed specif	ications of Earth	work in excavation	on,	[10]	
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