	· e*	Cöde No: 1	15AG [; ;]		LOGICAL UNIVI	PD CITY STITE	K13		
		B	Tech III Year I	Semester Exar	ninations, Novemb	er/December	- 2016	• •••	
			(.		SYSTEMS-II ectronics Engineerin	ng)			
5	· · · · · · · · · · · · · · · · · · ·	Time: 3 hou	urs		s A and B.	_	Max. Marks: 75		
•	15	Part cons	A is compulsory	which carries answer any one f	25 marks. Answer a ull question from ea	ll questions i ch unit. Each	n Part A. Part B question carries		
<u></u>		F'6	F.C	PA	.RT - Å (PE	(25 Marks)	F.E.	
			different types of t is transposition		1:		[2]		
))	13°	c)Defin d) :Class e) State	ne the voltage reg sify the transmiss proximity effect	ulation in transi ion linës based (nission lines. on the yöltäge.	PS	[3] [2] [3] [2]		
		g) Class h) List t	t is the effect of re sify the types of in the methods for in	nsulators. nproving string			[3] [2] [3]		
*** ***			are HV cables cl the expression for		sulation resistance.		[2] [3]		
				PA	RT - B				
	15						(50 Marks)		
Ö		i ····each diam the o	A single phase; two wire transmission line 20km long, is made up of round conductors each 0.9cm in diameter, separated from each other by 45cm. Calculate the equivalent diameter of a fictitious hollow, thin-walled conductor having the same inductance as the original line. What is the value of this inductance?						
			are bundled con for overhead line		iss the advantages	of bundled co	onductors, when [5+5]		
***	, 15		ly discuss the var		OR;	ed for over he		PE	
		b) Discu			an distance. How is e?	this concept	used to find the [5+5]		
			re the expressions red cicuit and pha	isor diagram.	and efficiency of a	short transmi	ssion line: Draw	PE	
,			is an equivalent s circuit in terms	∏ circuit mode	el of long line? Der	ive expression	n for parameters [10]		
	15						FE		

45.

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