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Cöde:No:	117CT []]: .:]	erra verr	\$™e or	!'''; .'''	R13	**** * *
i ijAV	VAHARLAL NEI B. Tech IV Year I ELE	Semester Exa CTRICAL DIS	LOGICAE UNIVE minations, November TRUBUTION SYS dectronics Engineer	er/Decembe TEMS		• cx • • * * * * * * * * * * * * * * * * *
Time: 3 Ho	ours			******	Max. Marks: 75	;···,
Part Part	B consists of 5	y which čarries Units. Answer	A and B:	on from ea		• • • • • • • • • • • • • • • • • • • •
	PS	PA	ART- A		(25 Marks)	*****
b) Defi c) Drav	ine load factor and w a simple radial so	loss factor. econdary systen	loads can be classif	a single lin	[2] [3] ne diagram. [2]	
d),Wha	at are the factors go	overning the sele	ection of voltage leve	els in distrib	oution systems? [3]	K + 4 X , , , , , , , , , , , , , , , , , ,
f) Desc g) Wha		used to calculate es of circuit brea			[2] stems. [3] [2] [3]	
i): :::::::::::::::::::::::::::::::::::	e short notes on Se e short notes on Co	eries compensati oordination of p	on. ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;		[2] [3]	2
		P	ART-B			
	vo the relationship	****	ctor and load factor.	X+4 Y X X X X X X X X X X X X X X X X X X	(50:Marks)	****
b) Wha	t are the factors to	be considered for	or load forecasting.		[6+4]	
•		e factors which	affect the distribution	on system p	lanning in the near	
future b) : With	examples give the	classification a	nd explain the chara	cteristics of	loads. [5+5]	X + + K Y
b) Expla	ain various types o	f radial primary O	ondary distribution : feeders with diagran R	ms.	[5+5]	
b) : Assur 15-m consu	me that a load of 1 in weekly maxii	00 KWiis.conne num demand h. Assuming a	be considered in selected at the river side is given as 75KV week is 7 days, fintion.	e of Godava W, and th	ry paper mill. The e weekly energy	
;	FE	FB	E-G	ATTAN TA X	P6	* (* ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °



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b) In	rove that the power love phase lateral feed a three phase system ower factor for which	the impedance the voltage dro	of the line is (Rap is maximum.			F.E.
fa b) Pı	terms of resistance ctor for which voltage ove the power loss of agrounded neutral cas	and reactance of drop is minim	um for a uniform currents in the	ly loaded teader. conductors of sin	ji gle-phase lateral	F6
b) EEE	ist the objectives of dixplain the coprdination	n procedure bet C	ween two fuses. OR	PE	[5+5]	
9.a) D b) W	iscuss clearly the co-o	ordination of pro ctives of distrib	otective devices i ution protection?	n a distribution sy Discuss.	rstem. [5+5]	
10.a)Co	ompare shunt and seri hat is the need to con	trol the voltage	of power system	sation ? Explain in detai	1. [5+5]	****
110	ow a shunt capacitor ing a shunt capacitor	and reactors c	trol.			
h) W	That are the necessition the disadvantages of the d	es of Voltage co	ontrol and p.f. co	system?	r systems? what [5+5]	CART PAR
P.S.	P6	0	oOoo—		F.6	
P6	PÉ,	PE		F6	PS	P6
P6	₩ .	F'E	FE		P6	P5
	Pö	FE	. P6	FG	P6	FG