

Code No:	117DQ [[]: : [] VAHADI AT NIC		IOT OCTOBER		R13	****
JAI	D. Tech IV Year	1 Semester Ex HIGH VOLT	COLOGICAL Usaminations, No FAGE ENGINEE Electronics Eng	NIVERSITY HY vember/Decembe RING	DERABAD r - 2016	• ;
Time: 3 Ho	ours				x. Marks: 75	
cons	s question paper co A is compulsory sists of 5 Units. A les 10 marks and n	which carries Answer any or	25 marks. Answ ne full question	er all questions in	Port A DS-t D	****
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,]	PART- A			
1.a) Wha b) Give	t are the different the classification	insulating mate of solid insula	erials used in Cir ting materials on	cuit breakers? the basis of opera	(25 Marks) [2] ting temperature.	
	Paschen's law.	1000 July 200 100	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*	[3]	
d)Give e)Defi	the concept of To ne rise time and de t is the working pr	cay time of in	ipulse võltäge wa	n in gases	[2] [3] [2]	Khek k
g) What	t do you mean by l t are the practical of t do you mean by (back-flashover characteristics	? of a surge diverto	er?	[3] [2] [3]	
	different tests to b	be conducted o	n H.V cables.	inistand vonage.	[2] [3] [3]	**** ** ******************************
		I	PART-B			
2/ Expla	in different numa	rical manth a de	111 C		(50 Marks)	
in die	lectrie media.	irrical methods	available for est	imation of electric	field distribution	
: ''	; · · · · · · · · · · · · · · · · · · ·	**** * * * * * * * * * * * * * * * * *	OR		[; [[10]	
3. How indica	is transformer in ting the insulating	nsulation divi g materials cho	ded? Briefly in sen.	dicate the insular	tion arrangement [10]	
(A.a) What	is Ionization proce	ess? Explain di	ifferent ionization	n process in detail.		
b) Expla	in the streamer the	eory of breakdo	own in gasës.	*****	[5+5]	X++X +4 X > F # # # # * * * * * * * * * * * * * * * *
tnan o	ther mechanics?		electrics, and how	w is it practically n	nore significant	¥ [*] x+4
b) Explai	in different theorie	s of breakdow	n in commercial	liquids.	[5+5]	
b) Explai	n the different me n the different me merits.	thoḍs of produ thods of high A	cing switching in A.C voltage meas	mpulses in test laborates with the	oratories ir relative merits [5+5]	::::::::::::::::::::::::::::::::::::::
			OR		- 1	
	PE	PE		P6	PG	TAXT X N



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	its and demerits.	memous of meas	այուց ուցո ուդրա	se currents with	[5+5]	
8/a) Wha iOve b) Exp	at are the mechani rhead power lines lain the important	sms by which lig?	**** *********************************	**** ** * * * * * * * * * * * *	e overvoltages on	*
b) What option o	at are the causes for the is meant by Insumal insulation lever in the High voltant at are the partial rating conditions.	nlation co-ordina el in a power sys ; age Schering Brid	power frequency tion? How are th tem? in: dge for the meas	e protective devi	[5+5]	P6
	at are the different	tests done on high	<u>=</u>	t breakers? Expla	in the procedure	*****
	at is the procedure	_	npulse test on higooOoo		ormers? [5+5]	. "
P6	P6	FE	F6	PE	PE	F6
PS		PS	P6	PS	PS	P()
PS	F6	P6	PS	Ë' Ë,	P6	P6
P6	PE.	F6	P6.	PS	P6	P6
F6	F S	P6	P6	PS	PE	