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Q.	Q.P. Code: 16EE229 R1									6						
Reg. No:																
SIDDHARTH INSTITUTE OF ENCINEEDING & TECHNOLOGV DUTTUD																
(AUTONOMOUS)																
	B.Tech IV Year I Semester Regular & Supplementary Examinations Feb-2021															
	ELECTRICAL DISTRIBUTION SYSTEMS															
ты	m	2 hours			(E	lectric	cal and	l Elect	tronics	Engi	neerin	.g)		Ma	v Mar	1 (0
111	ne.	5 nours					11 5.	.	-					Ivia	x. Mar	KS: 00
					(An	swer a	all Fiv	e Unit UNI	s 5 x] T-I	12 = 6	0 Mar	ks)				
1	a A generating station has the following daily load cycle : 6 Time (Hours) 0—6 6—10 10—12 12—16 16—20 20—24 6 Load (MW) 40 50 60 50 70 40 70 40 Drow the load curve and find (i) eveneral load and (iii) load factor										6 M					
	b	 b Discuss about Diversity factor and Coincidence factor. D Discuss about Diversity factor and Coincidence factor. 											6M			
2	a	Define a	and exp	plain	the terr	ns fee	der, d	istribu	tor &s	service	e mair	s with	n diagra	am.		6M
	b	Compar	e over	head	and uno	dergro	und d	istribu	tion s	ystem	s?					6M
								UNIT	Г-П							
3	a	A 2 wir	e DC	distri	butor c	able A	AB is	2 KM	l long	suppl	ies the	e load	s of 10	00A, 1	50A,	8M
		Each co	nducto	or has	a resis	tance	of 0.0	, 1000 10hm	per 1	000m	Om fro Calcu	om tne late p	otentia	ng pou 1 differ	nt A.	
		at each l	oad po	oint if	potent	ial dif	ferenc	te of 3	00V is	s mair	tained	l at po	int A.	r unner	enee	
	b	Draw th	e neat	sketc	h of rin	ıg mai	n dist	ribute	d syste	em? A	nd wr	ite its	advant	tages?		4M
4		Domizio	the ea	natio	na fan	r alta a	- dua	OI in	R						-1 :	73 4
4	a	radial Fe	eder v	vith 1	ns for iniform	vonag lv dist	ge aro	ps in ed load	eacn 1 fed a	sectio	n and mal vo	ltage	mum	potenti th ends	al in	71 VI
	b Explain the AC secondary distribution system with diagram.								•	5M						
		,						UNIT	'-III	U						
5	a	Explain	the va	rious	factors	to be	consi	dered	to dec	ide id	eal loc	ation	of sub	station	?	6M
	b	Explain	how to	o deci	ide the	rating	ofad	listribu	ution a	ı subst	tation	?				6M
	OR															
6	a	What are	e the a	dvant	tages ar	id disa What a	advant	tages (of ung	round	ed sys	tem?	.9			5M 7M
	U	what is	sona g	groun	ung: v	v nat a	lie its		T	and di	sauva	mages	5.			/1 VI
7	a Define nower factor? Explain voltage and current relationship for different loads									6M						
,	b	Explain	the rol	le of s	shunt ca	apacit	ors in	power	r facto	r corre	ection		11010111	Todds.		6M
						1		O	R			2 8				
8	a	An alternator is supplying a load of 300 kW at a p.f. of 0.6 lagging. If the power factor is raised to unity, how many more kilowatts can alternator supply for the same kVA loading?										6M				
	b	Determi	ne the	optin	num ca	pacito	r allo	cation	for in	prove	ement	of poy	ver fac	tor.		6M
								UNIT	Γ-V	1		1				
9	a	Explain	the dis	stribu	tion sys	stem F	Project	planr	ning w	ith dia	agram					6M
	b	What are	e the c	omm	unicatio	on me	thods	?	Ĩ							6M
10		F 1 ·	1	T C				OI	R							<i>(</i> - -
10	a L	Explain	about	Infor	mation	techn	ology	and L	AN.	tions	utom	tion				6M
	U	Explain	about	Auto	matic N	neter 1	eauin *	g m d ** EN	ND **	anon a	utoma	mon?				OIVI