

Reg.	No:														
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR															
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	В	. I ech I	i rear	1 Se	mesto ENIED				ry Ex		ation	IS NO	ov/De	ec 2019	
				(F	INER loctri	ATIO Cal &	Flect								
Time	3 hour	2		(⊏			LICCI		5 EII	ginee	iliig)			Max	Marks: 60
Time.	5 nour	3		(A	an a 11 1	Circa T	Turita E	10	<i>(</i> 0)	(aulaa)			1 1111 11.	Marks. 00
				(Answ	er all I		NIT_I	X 12 =]	= OU N	(arks)				
1	Expla	in the fu	nction	of the	follow	ving in	therm	nal pow	l zer pla	nt and	expla	in the	princ	iple of	
•	operat	tion of ea	ich. a)	Econo	mizer	b) Ele	ectrost	atic pre	ecipita	tor c)	Conde	nser (d) Sup	er heate	r 12M
	e) Co	oling tow	ver.					-	-				-		
•	D'	1		1 1	C	1 1	. 1	OR	1 .	. 1	1 1		((1	1.00	
2	betwe	en them	natura	ii and	Torced	i arau	gnts v	vith ne	at ske	tcnes	and in	st ou	t the d	interenc	^e 12M
	betwe	en menn.					U	NIT-I	r						
3	Draw	the scher	matic d	liagra	m of a	nuclea	ar pow	er stat	ion and	d discu	iss its	opera	ation.		12M
				C			•	OR							
4	a Dis	scuss the	merits	and d	lemeri	ts of a	hydro	-electr	ic plan	t.					6M
	b Ex	plain abc	out the	fast bi	reeder	reacto	r.		_						6M
_	Б	1 • • • •	•	1		.11	UI	NIT-II	Ι						
5	a Ex	plain Ho soriba ab	rizonta	ll AX18 t plate	wind	mills.	tor wit	h a ral	ovent	skatch					6M
	D De	scribe ab	out na	i plate											OIVI
6	a Ex	plain Ver	rtical A	Axis w	ind mi	ills.		U N							6M
	b Wr	tite short	notes	on Sav	vonius	rotor.									6M
							UN	VIT-IV	V						
7	a Explain any one type of biogas digester with neat diagram and their advantages and									and	6M				
	Dis	sadvantag	ges.	0.11	•. • •			10							
	D WI	hat is got	oar gas	? How	How it is being prepared?										6M
8	a Dra	aw schen	natic d	iagran	n of ge	otherr	nal sys	stem a	nd exp	lain.					6M
-	b Ex	plain the	factors	s affec	ting b	io-dig	estion	of gas.							6M
							U	NIT-V	7						
9	a An	industri	al con	sumer	havir	ng a m	aximu	ım den	nand o	of 100	KW, 1	naint	ains a		
	loa	d factor	of 60%	%. The	e tariff	frates	are R	s.900 p	per KV	/A of	maxir	num	demar	nd	
	per annum plus Rs.1.80 per Kwh of energy consumed. If the average power factor											factor	6M		
	electricity hill and iii) The overall cost per KWh consumed											1			
	b De	fine bloc	k rate	tariff a	and po	wer fa	ctor ta	riff.			-				6M
					Ĩ			OR							
10	a Ex	plain hov	v a loa	d dura	tion ci	urve is	plotte	d. Wh	at is it	s use?			1.6		6M
	b The	$e \max maxim$	um der	nand of the	of a ge	enerati	ng stat	ion is 2	200M	W.The	annua	ul load	d facto	or	6M
	bel	ng 00%,	calcul			ciecuii	cai elle	ngy ge	merate	a per	year.				

*** END ***