Q.P. Code: 20EE0203										R	20				
F	Reg. No:]			
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR															
						(AU	TON	JOMO	JS)						
		B.Te										lay-20	22		
			•	GENE				ronics							
Т	ime: 3 hours				cente	ai anu	Lieu	lonics	Lingii	leering	3)		Max	. Marl	ks: 60
				(Ans	wer a	ll Five	- Unit	s 5 x 1	2 = 6	0 Mar	ks)				
				(1 mic	mer u		UNI	and the second second	2 0	o ma	KO)				
1	With neat s	sketch	explain	n the o	perati	on of			am po	wer st	ation a	and me	ntion	L3	12M
	its advantag	ges and	disad	vantag	es.										
							0]								
2	a List out the factors to be considered while selecting the site for hydroelectric												ectric	L1	6 M
	power pl b Distingu		rious	turbin	96 116	ad in	hydr	oelect	ria na	wor	station	in se	waral	L2	6M
	aspects.	11311 Va	nous	turonn	c5 u5	cu m	nyur	ocicci.	ne pe	WCI .	station		verar		UIVI
							UNI	T-II							
3	a Explain	the prin	nciple	of ope	ration	of nu	CONTRACTOR OF THE OWNER	and the second se	with	neat d	iagrar	n.		L3	6M
	b Explain	shieldi	ng and	l safety	preca	aution	s in nu	ıclear	power	plant	s.			L2	6M
							0]								
4	a What is				plain	Nucle	ear Fis	sion a	nd Fus	sion P	rocess	•		L1	8M
	b Write a	short no	ote FB	K.			TINIT	TTT						L3	4M
5	a Explain	the wo	rking 1	princip	leofs		UNIT lat pla	And in the second second	lectors					L3	6M
2	b Explain						-			•				L3	6M
	OR														
6	Explain pri	nciple	ofoper	ration	and w	orking	g of W	vind Po	ower I	Plant.				L3	12M
							UNIT	Γ -ΙV							
7	a List out													L1	6M
	b Explain	the wo	rking p	princip	le of t	oio ga	s pow O	-	eration	n with	neat s	sketch.		L3	6M
8	a Explicat	e the w	orking	g princ	iple of	focea			ergy (convei	sion.			L2	8M
	b Mention				-									L1	4M
							UNI	And and a state of the state of							
9	An industrial consumer having a maximum demand of 100kw maintains a load factor of 60%. The tariff rates are Rs.900 per KVA of maximum demand per anum												L4	12M	
	plus Rs.1.8						-								
	lagging, ca	lculate	i) To	otal end	ergy c	onsur	ned p	er ann							
	bill and iii)	The ov	erall c	cost per	r Kwŀ	l cons	sumed Ol								
10	a A genera	ating st	ation	has a r	naxim	um d			DOMW	.The	annua	l load t	factor	L4	6M
	is 50% a	nd cap	acity f	actor is	s 40%	. Find	the re	eserve							
	b Discuss	the two	part t	ariff a	nd pov	ver fa	ctor ta	riffs.						L2	6M

*** END ***