

Reg.	No:												
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR													
(AUTONOMOUS)													
M TECH II Year I Semester Regular Examinations Nov/Dec 2019													
DESIGN OF SOLAR AND WIND SYSTEMS													
(Thermal Engineering)													
Time:	Time: 3 hoursMax. Marks: 60												
(Answer all Five Units $5 \times 12 = 60$ Marks)													
	UNIT-I												
1	What a	re the a	alterna	te sou	rces o	fener	gy? Ex	xplain	any th	ree in	detail		12M
2	OK a Mention the applications of non-concentrating type collectors												6M
-	b What are the advantages of non-conventional energy sources?											6M	
	UNIT-II												
3	Mention the different types of Nuclear energy technologies. Explain												12M
	OR												
4	a Wha	t are th	ne adv	antage	es of n	uclear	energ	y?					6M
	b Disc	uss in	detail	about	Nucle	ar fus	ion an	d its a	pplicat	tions			6M
_	CI	• •					UN	1	<u>.</u>				1014
3	Classify wind energy conversion systems and explain.												1211
6	Explain	the av	zailabi	litv of	Geotl	nerma	l eners	on zv and	its so	urces	in Indi	ia.	12M
	I ···			J			UN	IT-IV	7				
7	Describ	e any	two bi	ologic	al me	thods	of hyd	lrogen	produ	ction.			`12M
	OR												
8	8 Explain in detail about hydrogen storage methods.											12M	
0	<u>UNIT-V</u>												
9	Describ	e the c	constru	iction	and w	orking	g of th	ermo (electri	c gene	erator	with a neat ske	tcn. 12M
10	Write a	bout n	hotovo	oltaic (cell an	d its a	dvant	ages.					12M
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