

Reg.	No	<b>):</b>											]		
	SI	DDH	ARTI	H INS	TITU	TE O	F EN	GINE	ERIN	IG & '	ГЕСН	INOL	OGY::	PUTTUR	2
							(AU	TON	OMO	JS)					
		Μ	.Tecl	h I Ye	ar II S	Seme		-			ation	s Oct	ober-2	2020	
								IART							
							(Pov	ver Ele	ectron	ics)					
Time:	3 ho	ours											Max	k. Marks: 6	0
					(A	nswe	r all F	ive Ur	nits 5 x	x 12 =	60 Ma	arks)			
								UN	IIT-I						
1	a	Defin	e sma	art grid	1 conc	ept ar	nd exp	lain its	s neces	ssity.					8
				on Re		-	-			•					4
							C	(	OR						
2	a	a Explain the plug in hybrid electric vehicles.													8
	b	Describe substation automation.											4		
								UN	IT-II						
3	a	Expla	uin he	w the	reliat	oility o	of sma	art gric	l can	be enh	anced	bv in	tegratin	ng intellige	nt 6
		-		device		•		0				2	υ	0 0	
				onven		,		nd sma	rt met	ering.					6
							U		OR	U					
4	a	Expla	uin the	e role o	of sma	art me	ters to	make	the sy	stem :	smart.				6
	b	Expla	uin ab	out sm	nart sto	orage	batter	ies.							6
								UN	III-III						
5	a	Expla	uin the	e conce	ept of	micro	o grid,	and it	s need	and a	pplica	tions.			6
		-		riable	-		-								6
								(	OR						
6	a	Describe the power quality issues of grid connected renewable energy sources.												8	
	b	Comp	pare n	nicro g	grid an	nd sma	art grio	d.							4
								UN.	IT-IV						
7	a	Expla	uin the	e web l	based	powe	r qual	ity mo	nitorii	ng syst	em.				6
	b	Expla	ıin ab	out po	wer q	uality	Audit	and it	s appl	icatio	ns.				6
								(	)R						
8	a	Expla	in the	e role o	of EM	C in s	mart g	grid.							6
	b	• Explain about power quality control technologies.												6	
								UN	IT-V						
9	a	Expla	in the	e role o	of HA	N in s	mart g	grid.							6
	b	Expla	uin the	e IP ba	used pr	rotoco	ols.								6
								(	OR						
10		-		oud co	-	-		eed.							6
	b	Expla	ıin ab	out Wi	ide are	ea net	work.								6

\*\*\* END \*\*\*