Reg.	No:														
	SIDDH	IARTI	I INS'	TITU	TE O	F EN	GINE	ERIN	IG & '	ГЕСН	INOL	OGY	:: PU]	TUR	
	Ν	/I.Tecł	n I Ye	ar II {	Seme	(AU ster	TON( <b>Reau</b> l	DMOU I <b>ar Ex</b>	JS) amin	ation	s Oct	ober	-2020		
		S	WIT	CHEI	D MO	DE A	ND R	ESON	ANT	CON	VERT	TERS			
Time	3 hours					(Pov	ver Ele	ectroni	ics)				Max	x Mark	s: 60
11110.	e nours			(4	Answe	er all F	Five U	nits <b>5</b> :	x 12 =	= <b>60</b> M	arks)		1,10		
							UI	NIT-I							
1	<b>a</b> Expl	ain the	Buck	Swite	ching	Regul	ator w	ith ne	at sket	ch.					<b>8M</b>
	<b>b</b> List out the advantages of Buck Switching Regulator.														<b>4M</b>
OR															
2	<b>a</b> Explain the modes of operation of Boost Switching Regulator with neat sketch.														<b>8M</b>
	<b>b</b> List out the advantages of Boost Switching Regulator.														<b>4M</b>
							UN	IIT-II							
3	<b>a</b> Expl	ain the	curre	nt-mo	ode co	ntrol i	n SMF	PS with	h nece	ssary	wave f	forms.			<b>8M</b>
	<b>b</b> List out the applications of SMPS.														<b>4M</b>
4	<b>D</b> 1-1-		л <b>:</b>	-11		- 1- 1	( :1:	OR							1014
4	Explain the flux-initialiance problem in bridge transformer.													121/1	
5	Explair	n briefl	y abou	it the	e resor	nant co	onverte	ers wit	th nec	essary	wave	forms.			12M
	Ĩ	·	-				(	OR		2					
6	Explair	ı transf	ormer	core	mater	ials, g	eomet	ries an	d peal	c flux	densit	y seled	ction.		12M
UNIT-IV															
7	Explair	the cu	irrent i	mode	contro	ol for	push-p	oull co	nverte	r with	neces	sary w	vavefo	rms.	12M
	OR														
8	<b>a</b> Wha	it are th	ne defi	cienci	ies and	d limitations of current mode control?									<b>8M</b>
<b>b</b> Explain the advantages of current mode control.															<b>4M</b>
							UN	NIT-V							
9	Discuss the Layout of Power Circuit for minimum EMI in SMPS with neat sketch.												ch.	12M	
10	<b>XX7</b> •	1 .		<b>C1</b> · ·		10	1.	OR	1	<b>T-1 47</b>	·	DC			103.6
10	write s	nort no	otes on	Shiel	iaing a	and G	roundi	ng to i	reduce	EMI	in SM	175.			12NI

**R19** 

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