E			Reg	g. No. :									
	Question Paper Code: 55012												
Ph.D COURSE WORK EXAMINATION, MAY 2018													
				Elective									
			C	Course wor	rk								
		15PPE5	12– SWITCHEI	D MODE F	POWER	CONV	VERS	ION					
			(Re	gulation 2	2015)								
Du	ration	: Three hours	Answe	r ALL Qu	estions	5		Maxi	imun	n: 100 l	Marks	5	
			PART - A	$(5 \times 20 =$	100 Ma	arks)							
1.	(a)	a) Analyze the DC inductor and capacitor design considerations. Or					5.	CC	01- Ana		(20)		
	(b)	A load comprise series is fed from Analyze the circu	s of resistanc n voltage sour it and draw the	e and cap ce of V_m S waveform	pacitan Sin∞t 1 ns.	ce cor through	nnecte h a d	ed in iode.	CC	01- Ana		(20)	
2.	(a)	Discuss about continuous condu ripple voltage.	the operation action mode a	of Step nd derive Or	o dow an ex	n cor pressio	overte	r in r the	CC	02- Ana		(20)	
	(b)	Discuss the vol converter.	tage mode c	control p	rinciple	es of	fly	back	СС	02- Ana		(20)	
3.	(a)	Explain in detail a	about current re	egulated n Dr	nodulat	ion.			CC	93- U		(20)	
	(b)	Explain the need also explain overv	of Snubber circ oltage snubbe	cuit in con r.	verter	applica	ation	and	CC	93- U	I	(20)	
4.	(a)	Briefly explain at with help of diag	out control scl	neme for r	resonan	t conv	erters		CC	94- U		(20)	

- Or
- (b) Explain the voltage commutation in Type-A chopper with neat CO4- U (20) figures and derivations.

5.	(a)	Briefly explain the working of half bridge McMurray inverter.	CO5-U	(20)	
		Or			
	(b)	Explain the operation of three phase Inverter with a neat diagram.	CO5-U	(20)	