E			Reg. No. :									
	Question Paper Code: 55005											
Ph.D COURSE WORK EXAMINATION, MAY 2018												
Elective												
Course Work												
15PPE505–COMPUTER AIDED DESIGN OF POWER ELECTRONICS CIRCUITS												
(Regulation 2015)												
Duration: Three hours Maximum: 100 Marks												
Answer ALL Questions												
PART - A (5 x 20 = 100 Marks)												
1.	(a)	Review the performance of IGBT used as current control devices						C	O1-Ana	a (20)	
Or												
	(b)	Review the performance of single phase inverter circuit with the help of computer aided design.					C	Ol-Ana	a (20)		
2.	(a)	Compare coupled and decople system suitable examples.					C)2- U	(20)		
Or												
	(b)	Classify the future the	rends in computer sim	ulation				C)2- U	(20)	
3.	(a)	Explain the need of DC sweep analysis in power converter.						C	D3- U	(20)	
	(b)	Consider any power analyzes.	Or electronic device and	perform	n a tim	ne dor	nain	C	D 3- U	(20)	

4.	(a)	Demonstrate the concept of system level integration by considering suitable system.	CO4-Ana	(20)
	(b)	Or Perform the fourier analyze of single phase inverter and discuss the output voltage and current in nonlinear operation.	CO4-Ana	(20)
5.	(a)	Develop a simulation circuit of Cyclo converter feeding R load and draw the output waveforms.	CO5-Ana	(20)
	(b)	Or Design and develop a simulation circuit of single phase Cyclo converter feeding RL load and draw the output waveforms.	CO5-Ana	(20)