

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create 11879 1

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PART - C (1 × 15 = 15 Marks)					
		(ii) Draw and explain the block diagram of closed loop control of DC drives.	6,K2,CO5		
	b)	(i) Explain in detail, the open loop control of AC drives with constant v/f ratio.	7,K2,CO5		
15.	a)	 (i) Briefly explain about the DC chopper drives. (ii) With diagram explain the types of electrical braking for DC drives. OR 	7,K2,CO5 6,K2,CO5		
		(ii) With suitable circuits, mode diagrams and waveforms explain any one of CSI.	7,K2,C		
	b)	(i) Comparison between voltage source inverter and current source	6,K3,CO4		
		that each thyristor conducts for 120° and the resistive load is star connected.			
14.	a)	With neat sketches, explain the operation of three phase voltage source inverter. Draw phase and line voltage waveforms on the assumption	13,K2,CO4		
	•)	diagram.	13,K2,CO3		
	b)	What is resonant switching? Eveloin its point is its at a side of the second state of			
13.	a)	Explain the working of buck converter with neat waveform and also derive the expression of peak-to-peak voltage across the appealter.	13,K2,CO3		

0.	a)	Explain the different classes of chopper with neat sketch.	15,K2,CO3
•		OR	
	b)	Draw and explain the block schematic of SMPS and mention its	15,K2,CO3
		auvantages over inical power suppry.	

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