Sem-IV / Prod (EEE) CB45 /31.05.16 Electrical & Electronics Engg. Q.P. Code: 559701

			(3 Hours)	(3 Hours) [Total Marks: 80	
	1	N.B. :	 Question no. 1 is compulsory. Attempt any three from Q.2 to Q.6. Illustrate your answer with neat sketches. 		
1.	Atte	mpt ai	ny four of the following:	20	0
		a)	What is the necessity of starter for D.C.Motor.		
		b)	Why Single phase Induction Motor is not self startiself started?	ng? How it is	
		c)	Explain the various logic gates.		
		d)	Explain resistance welding, process control using SC	r.	
		e)	Explain the programmable Logic controller.		
2	(a)	Discuss the constructional details and working principle of D.C.Motor.			
	(b)	Explain the working of Stepper motor and discuss its industrial applications.			
3 (a)		Draw and explain the Torque-Slip and Torque-speed characteristics of 3-\$\phi\$ I.M.			0
	(b)	Expla	ain different speed control techniques of DC motor.	10	0
4.	(a)	Expla	ain the methods to calculate Efficiency and regulation	of transformer.	0
	(b)	Discuss 'Transmission and distribution of electric power'.			0
5.	(a)	100 100	nin the block diagram and pin configuration of OP -AM eal characteristics.	1P and Explain 10	0
	(b)		in the application of SCR for speed control of AC Mo	otors .	^
	(0)	ı.xpı	in the application of SCK for speed control of AC Mi	otors . 10	U
6	Wri	te a sh	ort notes on (any four)	20	0
		(1)	Industrial timers and relays.		
		(2)	Industrial applications of A C Commutator motors.		
		(3)	V-I characteristics of SCR.		
		(4)	Block diagram of microprocessor 8085.		
		(5)	Multiplexers, de-multiplexers		

muADDA.com muADDA.com