Paper / Subject Code: 41505 / Electrical & Electronics Engineering

S.E. SEM IV / PROD / CHOICE BASE / MAY 2019 / 29.05.2019

						(3 Hours)		Marks: 80	
N.B. :	2		-	is compuls r any three		maining quest	ions.		
Q1. A	tter	npt th	e follov	wing (Any4	.)			K.G	(20)
a)	Wł	hat is	a startei	r. Explain it	s importa	nce in dc moto	or.	36 6	
b) Li	ist var	ious ap	plications o	f induction	n motor.		- AM	
С) W	hat is	the nec	essity of sta	arter for D	OC motor.		- SAIGNO	
d	d) Draw and explain VI characteristics of DIAC								
e	e) Compare ideal OP-AMP with practical OP-AMP.								
Q2. A	(A	/hat is	steppe	r motor. Ex	plain any	one type of st	tepper mot	or with neat diagram.	(10)
I			-	system. Exystem with			er generati	on, transmission and	(10)
Q3. A	A) E:	xplair	the ad	vantage of	BLDC mo	otor over brush	hed motor	with neat diagram.	(10)
	_		440V i	i) The synii) The rot	chronous or speed,	lied from 50H speed. when slip is 4 when rotor ru	%	om.	(10)
Q4.	A) E	Explai	n the w	orking of d	c motor w	rith neat diagra	am.		(10)
	-		1 A L L	plain Torqu andition for			of 3 phase	induction motor. Also	(10)
Q5	A)	Expl	ain diffe	erent types	of single p	hase inductio	n motor.		(10)
	B)	Expla	in the	construction	of induct	tion motor wi	th neat diag	gram.	(10)
Q6.	Wr	rite sh	ort note	e on (Any 3)				(20)
	a)) App	lication	ns of Steppe	er motor				
	b) Transmission system								
	c) Phase shift oscillator								
	d)	i) C	onvert (6327.4051)	8 into its e	equivalent dec	imal numb	oer.	
	i	ii) Co	nvert (2	2F9A) ₁₆ to 6	equivalent	binary number	er.		