Registr	ation No :												
Total Number of Pages : 03											B.Tech.		
4 th Semester Regular / Back Examination 2018-19 ELECTRICAL MACHINES - II BRANCH : ELECTRICAL Time : 3 Hours Max Marks : 100 Q.CODE : C1009 Answer Part-A which is compulsory and any four from Part-B.											210	PEE4I101	210
Answer all parts of a question at a place.													
Q1 a)	a) If the current drawn by a DC series motor increased from 10A to 12A, what is the change in torque expressed as a percentage of initial torque?											(2 x 10)	
210	 a. 21% c. 41%²¹⁰ 		210	b. d.	25% 44%			21			210		210
b) c)	The brush a GNA. The total a. sin α c. tan α Two dc mac	rque develo	oped will	be prop b. d.	portior cos c cos2	nal to α			-				
210	b. Their spe	en: eeds are id eeds and e eeds and a	entical xcitation rmature	are ide	210 entical.		es of	f the 1		ines will	1 be 210		210
d) e)	In a dc gener a. Increasir	ng its field r ing its field I is short ci	itical resi esistance resistance rcuited b	stance e b. ce d. y brush	Incre Decr nes wh	asing easing en it li	its sp g its s es	peed speed			210		210
f)	c. Along Gl An over excit power.	NA		d.	Along	g d-Ax	(is			tive	210		210
g)	a. Lagging,c. Lagging,Active powera. Changingc. Changing	of an alter g field exci g the powe	nator car tation r factor	n be va b. d.	ried by Char Any₀	/ nging one of	orime the a	mov above			210		210
i)	An electrome salient pole average to constants) a. Asinō c. Asinō+B In a salient p the maximum	rotor. If δ orque dev ———— sin2δ pole synchr	is the ar reloped	ngle be is p b. d. otor, th	etweer proport Asin2 δ ne dev	n stato tional 2δ relope	or fiel to d relu	d and (A	d roto and ce tor	or field, d B	the are		
210	a. 0 c. 60	i value Will	en Mic IO	b. d.	45 90	CUITC	ai ueg	၂၊ ငင ်) I O		210		210