5.	(a) (b)	motor in detail.						10
6.	(a)							
		I _f (A)	3.2	5.0	7.5	10	14	
		E _f (kV)	3.1	4.9	6.6	7.5	8.24	
		I _{sc} (A)	500	778	1170	- 12000000	edagen erk Minne	
		ZPF terminal voltage (kV)	-	1.85	4.24	5.78	7 (a) 7 (b) (a) (b) (b)	
		Per phase armature resistance is 0.2Ω Calculate voltage regulation at full load current of 500 amp at 0.8 p.f. lag by ZPF & ASA method.						
	(b)	Explain conditions for parallel operation of synchronous generators 09						
 (a) Explain excitation circle & power circle of synchronous motor with diagram 						r with neat	10	
	(b)	Write a short note on st	arting o	f synchr	onous mo	tor against	high torque	10

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