RE	RØ	RO	R:0		Eg	
	Derive the EMF equation of DC generator. Explain about the different types of DC motors. [6+4]					
5.a)D b)D	iscuss in detail the v erive torque equatio	vorking of Thre n of a d.c motor	OR e point starter use r.	d in a d.c motor	[5+5]	RI
	Derive the emf equation of a transformer. Discuss about the principle of operation of alternators. OR [5+5]					
7. a) : :::D b)::D	Discuss about the various losses that occur in a transformer. Discuss how regulation can be calculated using synchronous impedance method. [5+5]					
8.a) Draw the forward bias and reverse bias characteristics of PN junction diode and explain.						
	iscuss the working o	f PNP and NPN	transistors.	RØ	[4+6]	KI
re	raw the circuit diagr ctifier and derive ficiency.	am and explain	the working of h	alf wave and fu put current an	ll wave bridge d rectification [10]	
10 Di	scuss the principle	k diagram.	of CR <mark>O by</mark> expla	nining the func	tion of ėvėry [10]	RI
Derive the expression for electric field deflection sensitivity of CRT.Discuss the various applications of CRO.						
RE	Re	00	O00	RØ	RO	
RO.	Re	RØ	RO.	RB	RO	[7] [
RE	RØ	RØ	RØ	RO	RO	RI
RO	- RE	RØ	Re	RØ	RO	
					e c'ani	: ··. ·
Re	RØ	RØ	RØ	RO	RØ	RI