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Register				
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III Semester Diploma Examination, Nov./Dec. 2017

DC MACHINES AND ALTERNATORS

Tim	ie : 3	Hou	rs]	, e	Max. Max. Max. Max. Max. Max. Max. Max.	arks : 100
Note			-	questions from Part – A. Ea en full questions from Part -	•	
				PART – A		
1.	List	the ty	pes of DC gene	erators.		5
2.		w the currer		of a DC shunt generator as	nd write the equations for	5
3.	List	the lo	osses in DC gen	erator.		Diploma - [All Branches]
4.	Ехр	lain th	ne working prin	ciple of a DC motor.		§ 5
5.	Defi	ne to	rque and write	the torque equation of a DC	motor.	5
6.	Draw a neat diagram of an alternator and label the parts. Diploma Question Papers					
7.	List	the ac	dvantages of fra	actional pitch windings in al	ternator.	19] Beta Console Essation
8.	Stat	e the o	conditions for p	parallel operation of 3 phase	alternator.	5
9.	List	the ap	pplications of u	niversal motors and servo n	notors.	5
10.	Dra	wane	eat diagram of a	PART – B a DC generator and explain	its construction.	10
11.	(a)	Deri	ive EMF equati	on of a DC generator.		5
	(b)	(i) (ii) (iii)	Yoke Armature Commutator Brushes Field poles	s used for the following part	s of a DC generator	5
				[1 of 2]		[Turn over