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ELECTRICAL MACHINES 3rd Exam/ECE/6189/Jun'2022 (For 2018 Batch Onwards)

	(For 2018 Batch Onwards)	
Duratio	on: 3Hrs.	M.Marks:75
	SECTION-A	
Q1. Do	as directed.	15x1=15
a.	The function of starter in motor is	
b.	Transformer core is laminated to reduce	
	Ratio of KW to KVA is known as	
d.	The direction of three phase induction motor can be reversed by	_
e.		
f.	Onlymotor is capable of running on ac as well as dc supply.	
g.	The direction of induced e.m.f can be determined by applying	
h.	Transformer works on the principle of	
i.	Ideal value of power factor is	
j.	The brushes for commutator are made up of	
k.	In case of star network phase current is equal to line current (T/F).	
I.	Wattmeter measures energy consumed in a circuit (T/F)	
	Correct phase sequence is RYB (T/F).	
	A transformer has no rotary losses (T/F).	
0.	Transformer can work on AC as well DC (T/F).	
	SECTION-B	
	tempt any six questions.	6x5=30
i.	What is the relationship between line current and phase current in three	ee phase delta system?
	Differentiate between CT and PT.	
	Explain working principle of a dc generator.	
	Discuss the function of commutator.	
	What are the advantages of three phase systems over single phase syst	ems?
	Discuss various losses in the transformer.	
	Write various methods of speed control of dc motors. Explain any one.	
VIII.	What are applications of synchronous machines?	
	SECTION-C	
Q3. Att	tempt any three questions.	3x10=30
a.	State and explain faraday's laws of electromagnetic induction.	
	Explain 2 wattmeter method of power measurement.	
	Explain construction and working of stepper motor.	
d.	Explain the working of DOL starter for starting 3 phase squirrel cage indof neat sketch.	luction motor with the help
e.	Write a short note on any two: i) Servo motor. 2) Micro motor 3) R	eluctance motor