SR 22

St. Peter's Engineering College (Autonomous) Dullapally (P), Medchal, Hyderabad – 500100. II - Mid Term Examination – JUNE 2024						Dept.	:	CSM
						Academic Year 2023-24		
Subject Code	:	AS22-2ES01	Subject	:	Basic Electrical Engineering			
Class/Section	:	B. Tech. (A)	Year	:	I	Semester	:	II
Duration	:	120 Min	Max. Marks	:	30	Date:	:	

BLOOMS LEVEL					
Remember	L1	Understand	L2	Apply	L3
Analyze	L4	Evaluate	L5	Create	L6

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PART – A (10x1M = 10M)

Note: Answer all Questions. Each Question carries equal marks.

Q. No	Question (s)	Marks	BL	CO
	UNIT - IV			
1	**a)** Define slip speed?	1M	L2	C124.4
	b) What is step up transformer?	1M	L2	C124.4
	c) What is the advantage of slip ring rotor over squirrel cage rotor?	1M	L2	C124.4
	d) Define dynamic induced E.M.F	1M	L2	C124.4
	UNIT – V			
	e) What is earthing?	1M	L1	C124.5
	f) what are the major parts in the battery?	1M	L1	C124.5
	g) Define cable?	1M	L1	C124.5
	h) Define fuse?	1M	L1	C124.6
	UNIT – III			
	i) List the various losses in a DC machine	1M	L2	C124.3
	j) What is the function of brush?	1M	L2	C124.3

PART – B (20M)

Q. No	Question (s)	Marks	BL	CO
	UNIT - IV			
2	**a)**What are the losses in transformer?	4M	L2	C124.4
	b)Explain working principle of synchronous generator and give its applications	4M	L2	C124.4
	OR			

3	**a)**Explain the construction and working principle of three phase induction motor and give its applications.	8M	L2	C124.4
	UNIT – V			
4	**a)**Define cell and battery? Classify various types of batteries.	4M	L2	C124.5
	b)Explain the construction and working of Battery?	4M	L2	C124.5
	OR			
5	**a)** Define Cable? List the factors which affecting the selection of the cable? Explain different types of Cables?	8M	L2	C124.5
	UNIT – III			
6	**a)** Briefly explain the constructional details of a dc machine	4M	L2	C124.3
	OR			
7	Write down the applications of dc motors	4M	L2	C124.3

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