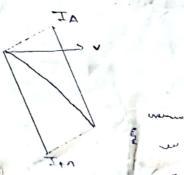
	Gurv	Nanak Dev Engi	neering College, Ludhia	na	1		
	Departmen	t of Electronics a	nd Communication Engi	neering	g		
Program	B. V. C.	B.Tech.(EE)	Semester 4		The same of the sa		
Subject Code		PCEE-106	Subject Title Elec		Electrical Machines – II		
	ster Test (MST) No.	2	Course Coordinator(s)		Harminder Kaur		
Max. Mar.	ks	24	Time Duration 1 hour 30 minutes			1.5	
Date of MST		24 April, 2024	Roll Number	2 Most 25 Militates			
Note: Atte	mpt all questions	A STATE OF THE STA			1		
Q. No.		Questi	on		COs, RBT level	Marks	
Q1	Write the advantag	es of short pitch w	inding.		CO1, L1	2	
Q2	Differentiate crawl				CO2, L4	2:	
Q3		Discuss the working principal of capacitor start capacitor run					
Q4		Draw and discuss the application of induction generator in wind mills					
Q5	Compare salient po		rotors.		CO1, L4	4	
Q6	a. Construct a induction n	nd explain torque s notor.	slip characteristics of three d from 50 Hz supply. If the		CO2, L5,L6	4+4	
11 27	frequency of and slip.	of rotor einf at fuil	load is 2 Hz. Find full load	speed	1	1	
	utcomes (CO) vill be able to		į .		The state of the s		
1	Understand the cor	ncepts of AC mach	ine windings.	TYPE	, . ,		
2	Analyze performar	nce characteristics	of Three Phase Induction m	otor.		7	
3	Analyze performat	nce characteristics	of Induction Generator.		and the same		
4	Apprehend perform	nance characteristic	cs of Single Phase Inductio	n Moto	r. 🧍		
5	Understand the cor	ncepts of Synchron	ous machines.			4	
6	Understand paralle	el operation of alter	nators with infinite bus wit	h study	of load sha	ring.	

RBT Classification	Lower Order	Thinking Leve <mark>ls</mark>	(LOTS)	Higher Order Thinking Levels (HOTS)			
RBT Level Number	L1	L2	L3	L4	L5	L6	
RBT Level Name	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	



		Jury Nanak Dev Engi	neering College, Ludhian	1a			
			ectrical Engineering		7 F	2	
Program		B.Tech.(EEA, Semester 4 EEB)			X Y		
Subject Code		PCEE-108	Subject Title	nals and Systems			
Mid Semester Test (MST)		2	Course Coordinator(s)	Karan Singh	Karanbir Singh & Sukhpal		
Max. Ma	rks	24	Time Duration	1 hour	r 30 minutes	477	
Date of M	p. F.	26 April, 2024	Roll Number		1	-	
	empt all questions	100	The section of			Contractive of	
Q. No.		Question			COs, RBT level	Marks	
Q1	Give two condition	s for existence of Fouri	er Transform.	1	CO4, L1	: 2	
Q2	Find ROC of $x(t) =$	CO5, L4	2				
Q3	State and prove Par	rseval's energy theorem	i i	1	CO4, L3	4	
Q4	Evaluate z transfor	CO5, L5	4				
Q5	Calculate x(t) at t =	CO6, L4	4				
Q6	Explain Zero O		Also discuss the proce	ess of	CO6, L6	8	
	Outcomes (CO)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jan		1		
Students	will be able to			- 1	100		
1	Understand the co	ncepts of continuous tin	ne systems.		The street	-	
2	Apprehend concer	ats of discrete time syste	ms.	100			
3	Understand the be	havior of continuous and	d discrete-time L11	7			
		of Fourier Transfe	rmc *				

	Lower Order Thinking Levels (LOTS)			Higher Order Thinking Levels (HOTS)			
Classification RBT Level	LI	L2	L3	L4	L5	L6	
Number RBT Level	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	
Name							

Understand the concept of Fourier Transforms

Understand the concept of Laplace and z-Transforms

Analyze Sampling and Reconstruction of control system

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6

		Guru Nana	Dev Engin	eering ('ollege I	dh:				
		Guru Nana	tment of Ele	ectrical I	Inginossis	iuniana	1 and the second			
		Depar	h (EE)	Semeste	ingmeerin	g	4 th			
	Program	B. Tec		100	DOWED		ICS			
Su	bject Code emester Exa	m	120	Subject T	Itle	POWER ELECTRONICS Harmeet Singh Gill (SEC-A) &				
Mia S	MSE) No.	2	Course Coordinator Sanpreet Singh (S							
(1	ax. Marks	24	Time Dura	tion	1 hour 30 minutes					
D	ite of MSE	22-04		Roll Num			1 1 1 2 5 2			
Vator A	ttempt all que			Roll I valle						
Q. No.	ttempt an qui		Question				COs, RBT level	Marks		
	Whatare	the drawback	s of a series in	verter?	4	18 1	CO6, L1	2		
Q1	W hat are	he output fees	woney of a con	cloconver	ter be chan	ged?	CO2, L4	2		
Q2/ Q3	How can be output frequency of a cycloconverter be changed: Illustrate principle of operation of dual converter? Explain one CO3, L2 4									
Q4	Explain the operation of single-phase to single-phase, step down CO5, L2 4									
~~	cyclo-con	verter with ci	reuit and way	and for ch	nner		CO4, L4	4		
Q5_	Discuss v	arious contro	techniques us	sea for Car	o inverter	100	178 118	8		
Q6	Describe	modified Moperating mo	IcMurray ha	sponding	vayeforms.		_CO6, L6	0		
Course Student	Outcomes (CO)	-	and the second			The second of			
i	Analyze v	various thyristo	r family and it	s commuta	tion technic	ucs				
2	Commanda	and different si	ngle phase pov	Wel Collyci	ter circuits.		di di	,		
3	Apprehen	d three phase	ower converte	er circuits.	· C!	actricl al	ectronics	1		
	Understar	nd categorization	on of chopper a	as per nece	essity of indi	isti lai ei	COLI OTHOS	1		
4	application	Apprehend three phase power converter circuits. Understand categorization of chopper as per necessity of industrial electronics application. Develop skills to propose cycloconverter pircuits for various applications. Develop skills to propose cycloconverter pircuits for various applications.								
	application	wills to propos	e cycloconvert	erpircuits	for various	applicat	ions.			
5	Develop s	skills to proposed the use of in	verters in com	mercial an				5		
6		na the use of m	7 1	(LOTS)	Higher Or	der Thin	iking Levels	(HOTS)		
	RBT	Lower Order	Thinking Level	(1010)				/		
	ification			L3	L4	L5		L6		
	T Level	Ll	L2		D.	Evaluation	ina	reating		
Nu	imber	Remembering	Understanding	Applying	Analyzing	Evaluat	ung C	rearing		
RBT L	evel Name	Remembering	The same of the same	A H		11/	No.	Já .		

	<i>f</i>	Guru Nanak Dev 13-15	gineering College, Ludhiana Electrical Engineering		1	
			Semester	4th		
Program			Subject Title	Digital Electron		
Subject C	ode	PCEE-105		Pf. Swapandeep		
Mid Semester Test		Course Coordinator(s)		Kaur & Pf. Bhawi		
(MST) No Max. Mar		24	Time Duration	1 hour 30 m	ninutes	
Date of M		23 rd Apr, 2024	Roll Number	100	± 1 00 .	
NT 4 A 44.	ant all au	ections		J	N.T. andre	
Q.	empt all que	Questio	n	COs, RBT level	Marks	
No.	Define 1 bit	memory and bistable late	ch.	CO3, L1	2	
	Distinguish	CO3, L2	2			
`	Discuss the	CO4, L3	4			
1				CO3, L4.	4	
Q4 '	What are sh	ift registers? How do you	u classify them?	CO3, L1.		
Q5	Explain wit	CO3, L5	4			
		ered J-K flip flop.	The transfer of	1000	1 8	
Q6	Write a hot	e on classification and cl ductor memories.	haracteristics of different types	CO5, L4	0	
1			all	ين ابن		
	Outcomes (will be able	**		6.7		
		and and of logic laminus	and logic gates			
		taralament Combinationa	1 logic circuits	1		
3	Design and	implement Sequential log	gic circuits	Analog conv	ersion	
	-	A	DIE ITALI	Analog Conv		
	Do able to t	ise PLDs to implement the	e given logical problem	<i>₹</i> ₹		
6	Design sim	ple digital electronics bas	ed working projects	<u> </u>		

100		Thinking Lavels	(LOTS)	Higher Order Thinking Levels (HOTS)			
Classification RBT Level Number	LI	L2	L3	1.4	L5	L6	
	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	