Jai Hao Salmaryano

				Engineering College, Lu				
	DI	EPARTMI	ENT OF COMI	PUTER SCIENCE AND	ENGINEE	RING		
Program		B.Tech CSE   Semester		3 <sup>rd</sup>	3 <sup>rd</sup>			
Subject Code			PCCS-102	Subject Title	COMPUT	TER NETWOR	RKS	
Mid Semester Examination (MSE)		ination	1	Course Coordinator(s)				
Max	. Marks		24	Time Duration Dr. Inderjit Singh 1 hour 30 minutes				
Date of MST			26/09/2023	Roll Number		or Student only	y)	
Note	e: Attempt all o	juestions		1' '	1	1 6		
Q, N	0.		Que	estion		COs, RBT level	Marks	
Q	l - In which commun		physical and lo	egical addressing can be u	used in data	CO1, L2	2	
Q	channel t	for a voice nultiplex 12 te required	CO1, CO2, L4	2				
Q3	3 Explain, Also, dis	dia.	CO4, L2	1.5+2.5				
Q4	bandwidt	We measure the performance of a telephone line (4 KHz of bandwidth), when the signal is 20 V, the noise is 6 mV. What is the maximum data rate supported by this telephone line?						
Q5	Identify internetw diagram.							
	A. Draft a neat and labeled diagram for interaction between layers in OSI reference model with their data units in each layer  B. Discuss in detail the following layers which are  i. Responsible for node to node delivery  ii. Responsible Process to process delivery  iii. Responsible for encryption of information						2+6	
Cour			ents will be abl			1		
1	Develop an ui	nderstandir	ng of modern ne	etwork architectures fron	n a design ar	networks and	e. Lwirologo	
2	local area nety	vorks.		ed in wide area network	37 3	W.	Wireless	
3	Analyze vario	us protoco	is to develop no	etwork related application work designs and various	ns for future	odels of netw	orking to	
4	solve problem	s of comm	umication over	different medium.				
5	Utilize knowl	edge of ro	outing and cong	gestion control algorithm				
6	Discuss algor types of netwo	ithms for n	nedium access s	sub layer to avoid collision	on and error	problems over	different	



		Guru Nana	ak Dev Engin	neering	Collage		V	
		Departmen	nt of Comput	ter Scie	Conege, I	Ludhiana		
Progr	ram	B.Tec	h.(CSE)	Semes	tor			
Subje	ect Code	ESCS-		_	ct Title		3	
Mid S	Semester Exam (N	MSE) 1	1		e Coordi		Digital Electron	
No.		<i>y</i>	· .	Cours	e Coorui		Dr. Amit Jain,	
Max. Marks		24	//I			Aggarwal, Pf. N		
Date	of MST	27 <sup>th</sup> Se	ep., 2023		umber		1 hour 30 minu	
Note:	Attempt all quest		12.00	11011			220348	2
Q. No.		-2 -48	Question				GO DDG	
			Question				COs, RB7	Mark
$\overline{(Q1)}$	Illustrate the cor	cept of principle	of duality to	find the	dual of th	e following	CO1, L2	2
0	Illustrate the concept of principle of duality to find the dual of the following expression: (A+B')(A.B')'+AB'C						COLLE	-
Q2)				determir	e x in foll	owing:	CO1,CO5, L	4 2
	Based on Number system conversion theory, determine x in following: a) $(225)_x = (341)_8$						331,032,2	
60		$B)_5 = (X)_{BCD}$	T. L. A.	4	200	B		-
<b>Q3</b>		pression for diffe them using NAA		of Half A	Adder usir	ıg K Maps.	CO2, L3	4
02		aracteristics of R		TL and	TTL logic	families.	CO2, L2	4
,,,	P	A•	10, 11, 10				CO1,CO5, L	
<b>25</b>		В•					(01,005, 2	
								9
	Y Y							1
			AB T	-	Transport of the second		Constitution of the second	1-1-1
				p .			A. A.	
	For the above	given logic circ	enit Deduce	the Bo	olean ext	pression and	1	
	For the above	andard SOP and	POS form.	1110 20		4 7		
06	Minimize the e	expression using	K-Maps and	Design	the outpu	t using AO	I CO1, L4	8
Q6	Minimize the expression using K-Maps and Design the output using AOI rechnique: $f = \Sigma m(0, 4, 7, 8, 9, 10, 11, 16, 24, 25, 26, 27, 29, 31)$ . Would it						t	
	be convenient to	o design it using	NAND and N	OR gate	s? Comm	ent.	7	
Cour	Outcomes (CC	) Students will be	e able to					
Cours	nderstand the relat	tionships between	Boolean alge	ebra, co	nbination	al logic, and	sequential logic	0.
- 1			- mulation an	d logic	ontimi78H	on.		
	11 11 10	de airquite neing	gates and Stati	e-or-me	all MOA.	, 1(0,111, 1 2)	and PAL units	
		1 1	of cynchronol	ne and a	synchronu	ins sequentia	ti circuits	1
4 Cı	reate profound and esign and inspect (	llysis and design	meet desired	needs w	ithin reali	stic constrai	nts.	0 d 0 day 1 day
5 D	esign and inspect o	digital circuits to	oot digital circ	cuits.	appear of	- manufacture	1 A marie	F 1
6 D	esign and inspect evelop skills to bu	Lower Orde	r Thinking L	evels (I	OTS)	Higher	Order Thinkin	g Levels
RBT	Classification	Lower Orde	1 Ymmerne		- 1		(HOTS)	
	1	L1	L2		L3	L4	L5	L6 Creating
RBT	Level Number		Understand	ing A	pplying	Analyzing	Evaluating	Creating
DUT	Level Name	Remembering				2		

Jainoo Setuaryan 279/13

## Guru Nanak Dev Engineering College, Ludhiana Department of Computer Science and Engineering

Program:	B.Tech.(CSE)	Semester:	3 <sup>rd</sup>
Subject Code:	HSMCS-101	Subject Title:	Human Values and Professional Ethics
Mid Semester Test (MST) No.:	1 et	Course Coordinator(s):	Prof. Gurwant Singh Prof. Sukhjeet Singh Dr. Raman Kumar
Max. Marks:	24	Time Duration:	1 hour 30 minutes
Date of MST:	28-09-2023 (Thursday)	Roll Number:	2203482

Note: Attempt all questions. Elaborate your ansiver with a neat diagram, wherever required.

Q. No.	Question	COs, RBT level	Marks
Q1.	Explain the difference between ethics and morals.	CO1, L1, L2	2
Q2.	Define spirituality and its relevance in the workplace.	CO2, L2	2
Q3.	Discuss the importance of honesty, courage, and empathy in professional life.	CO3, L2, L3	4
Q4.	Describe the structure of value relations and how it influences decision-making in the workplace.	CO6, L3, L4	4
Q5.	How to conduct a professional SWOT analysis of an individual's ethical behaviour, citing relevant examples.	CO3, CO4, L3, L4	4
Q6.	Discuss the concept of the Johari Window and its application in improving self-awareness in the workplace.	CO4, L4, L5	8

Course Outcomes (CO) Students will be able to

Co	urse Outcomes (CO) Statems with be done to
1.	Discriminate between valuable and superficial in the life.
2	Encourages students to discover what they consider valuable.
2.	Understand the value required to be a good human being and apply these values in reallife.
4.	Evaluate and modify the behavior.
5.	Understand fundamental and organizational duties and protect individual and social rights.
6	Know about professional behavior, values and guiding principles.

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	40	The stands
		Higher Order Thinking Levels
RBT	O t mt ! Ling Laurle /I (	OTC)

RBT	Lower Order	Thinking Level	s (LOTS)		(HOTS)	
Classification			48	-	7	
RBT Level	LI	L2	L3	L4	L5	L6
Number		1 11 12			Evaluating	Creating
RBT Level Name	Remembering	Understanding	Applying	Analyzing	Evaluating	

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10		and the company of the same		artment of			7-2-	-	The Real Property	
ran	1		r.CSE (A/B/C)	Semest		The Market	3			
nject	Code	BSCS-	101	Subjec			Mathematica		-111	
Mid Sen (MST) N	nester Te	st		Course	Coordinator	r( <b>s</b> )	Rajt	hminder s bir knur chit Mehr		
Max. M	arks	24		Time I	Duration			our 30 mir		
Date of I	MST	29-9-2	023	Roll N	umber		220349			
Note: At	tempt all	questions.		1						
Q. No.				estion				COs, RBT	Mark	
¥			ht line fit of a cur					CO5, L2/L3	2	
7	Discuss the analyticity of the function: $f(z) = \cos z$					CO2, L3/L5	2			
Q3	Solve the system of equations by Gauss Elimination method: 2x + 2y + 4z = 18, $x + 3y + 2z = 13$ , $3x + y + 3z = 14$						CO6, L3/L5	-4		
34	The res	sults of measurement atures t (in degree	ent of electric resises) are listed below	tance R of a	copper bar at	various		CO5, L3/L5	4	
1	2	relation $R = a+bt$ .		8	14					
J	A + 2,1	7+2=3, 2x+3y	tions by Gauss Jor +3z = 10, $3x - y$	y + 2z = 13				CO6, L3/L5	4	
S6 .	(a) Giv	when that $u - v = e^{x}$ d $f(z)$ in terms o	$(\cos y - \sin y)$ . If $f z : \bullet$	f(z) = u +	iv is an analy	tic function,		CO2, L3/L5	8 (4+4)	
	for	mula.	$\frac{1}{-2}$ dz where C	is $ z-i =2$	using Cauchy	Integral		CO3, L3/L5	•	
Course	Outcome	es (CO)				100				
	will be a	ible to		Tropic	Artesta de la composición dela composición de la composición dela composición dela composición dela composición de la composición dela composición de la composición dela composición dela compo			1. 1. 4. 15		
CO2	Understand Analytic functions and evaluation of deciding									
CO3				x variables	. To or function	is of complex	variabl	е.		
CO5	I It tile	given data into be	St fit curve	the state of the s	2				3	
CO6	Apply	statistical methods	for analyzing exp	perimental da	ta	Property of the second				
RBT		Lower Order	Thinking Levels	(LOTS)		1 00			1 = -	
Classif				(4010)	righer Or	der Thinking	g Leve	ls (HOT	S)	
RBT L Numbe	er	Li	1.2	L-3	L4	L5		L6		
RBT L Name	evel	Remembering	Understanding	Applying	Analyzing	Evaluating	Creat			

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	1	Department of (	Computer Scien	ce & Engineeri	118	111111111111	100	
Program	all the second	B.Tech.(CSE)	Semester	ee & Engineeri		10 A 10 A 10	201	
Subject Co	ode	PCCS-101	Subject T	itle	3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Mid Seme	ster Exam (MSE) No.		Course Co	pordinator(s)	Pf. Kan Pf. Mar	Object Oriented Programmin Pf. Kamaldeep Kaur Pf. Manpreet Kaur Mand		
Max. Mari	ks	24	Time Dur	ation	DI. Hai	deep Singh Kang	3	
Date of MS	ST	75th C- 2022		1 nour	30 minutes			
Note: Atter	npt all questions	эт этр,2023	Kon Num	Der	22	15190	2203	
Q. No.	iipt aii questions	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	211		- Janes	20-1-	1 1/2	
200	MI A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	estion		1400	COs, RBT level	Mark	
	Make use of a progr	am to demonstrate the	concept of array	of objects.	8.7	CO3, CO4, L3	2	
	#include <iostream> using namespace std int main() int outer; innermost;</iostream>		ors and re-write t	he correct code:	1	CO2, L4	2	
08	cout<<" "; for (innerm { cout>>"* cout< <end< td=""><td>; }} /</td><td></td><td></td><td>100 m</td><td></td><td></td></end<>	; }} /			100 m			
64 8	Compare and corprogramming.  Explain the characteristics of the char		CO1, L2	4				
<b>3</b> 5)	Implement the above	e concept in a program zed/and copy constru-	n.		1	CO4, L4	1/1/4	
9/	Support this stateme	nt by distinguishing b	etween both con	structors.			4	
96	data of a class above statement Develop the C+- value as 10. A	an important feature of outside the class with with suitable program code for given situal pply any combination erate a single express	thout class mem i. tion: Declare a v on of increment	ber functions." ariable 'a', takin decrement and	Justify the grits initial arithmetic	CO2, CO4, L5, L6	8	
	tcomes (CO) Il be able to		anger a supple	W Property			To the se	
1	Compare and contro	ast procedure-oriented	d programming	with object-orie	nted program	nming and unde	rstand the	
2		ntrol structures, and d	ata types with the	eir methods.	Algorithms	A Part Part	, I.	
3		and string handling me			19 10	# 70 AGE 1	7 7 7 7	
4		functions, modules ar			246/ 10	A Not to the	PARM V	
5		lement polymorphism		vnamic memor	manageme	nt and exception	handlin	
ا ا			ii, aimoritanoo, u	Judinio monory	manageme	and exception	The state of	
	techniques to solve		**************************************		Ubarra and	and the second second	11	
6		les in object-oriented			18 (CO) (T)		-	
RBT		der Thinking Levels	(LOTS)	Higher Orde	r Thinking	Levels (HOTS)		
Classificati		<u> </u>	To the state		1200		07	
	Li	L2	L3_	1111L4	// '/L5	L6		
RBT Level	<b>I</b>	i			1 1 1	and the second s		
RBT Level Number RBT Level	Name Remember	ring Understanding	g Applying	Analyzing	Evaluating	Creating		



