

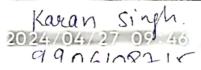
	Gu	ru Nanak Dev En	gineering College, Ludh	nana		
		Department of 1	nformation Technology			
Owogram.		B.Tech.(CSE)	Semester	3		
Program	odo	BSCS-101	Subject Title		matics-III	
Subject Code Mid Semester Test (MST) No.		ST) 2 Course Coordinator(s)		Prof. S	rof. Rajbir Kaur, rof. Sukhminder Singh rof. Sachit Mehra	
		24	Time Duration	1 hour	30 minutes	
Max. Ma Date of M		9 th Nov., 2023	Roll Number			
	empt all questions	Ques	tion		COs,	Marl
Q. No.					RBT level	2
of Section	D that a Mobius	Transformation pre	serves cross ratio of four poi	nts.	CO2, L2	2
Q1 Q2	1 1 111 11 -1	a non manufactured	by a company will be defect te the probability that exactly	10	CO4, L5	
Q3	I I C Aire	De defective. Apply Residue theorem to evaluate $\int_0^{2\pi} \frac{d\theta}{5-3\cos\theta}$.				
Q4 .	following results: $\bar{x} = 12 \text{ hours, } \sigma =$	3hours. Assuming the	to find the length of life prome data to be normally distrib to have life:	outed, what	L2,L5	
	(i) more than 15 h	ours (11) less than on	Ours			
	(i) more than 15 h	iours (11) less than on	Ours /		CO6, L4,L5	4
Q5	(i) more than 15 h (iii) between 10 a Two independent	nd 14 hours?	d 6 had the following values: 33 31 29	34	L4,L5	ئىلن د
Q5	(i) more than 15 h (iii) between 10 a Two independent Sample A 28 Sample B 29	nd 14 hours? samples of sizes 7 and 30 32 30 30 30	d 6 had the following values: 33	34		نداند نداند
Q5	(i) more than 15 h (iii) between 10 a Two independent Sample A 28 Sample B 29 Examine whether	nd 14 hours? samples of sizes 7 and 30 30 30 30 30 30 30	d 6 had the following values: 33	tions	L4,L5	4 bili ³
Q5 Q6	(i) more than 15 h (iii) between 10 a Two independent Sample A 28 Sample B 29 Examine whether having the same v Verify whether Pobelow: No. of defects	nd 14 hours? samples of sizes 7 and 30 30 30 30 30 30 30 30 30 30 30 30 30	d 6 had the following values: 33	tions	L4,L5 P-606	8
Q5 Q6	(i) more than 15 h (iii) between 10 a Two independent Sample A 28 Sample B 29 Examine whether having the same v Verify whether Pobelow: No. of defects Frequency Outcomes (CO) will be able to	the samples have been distribution, can be sampled in the samples have been distribution, can be sampled in the samples have been distribution, can be sampled in the samples have been distribution, can be sampled in the samples have been distribution, can be sampled in the samples have been distribution, can be sampled in the samples have been distribution, can be sampled in the samples have been distribution, can be sampled in the samples have been distribution, can be sampled in the samples have been distribution.	d 6 had the following values: 33	tions iven	CO6, L4,L5	
Q6	(i) more than 15 h (iii) between 10 a Two independent Sample A 28 Sample B 29 Examine whether having the same was verify whether Poblow: No. of defects Frequency Outcomes (CO) will be able to Apply the concept of m Understand the basic for Acquire the basic known	atrices to solve the syst modurations of complex variables.	33 31 29 24 27 28 In drawn from normal popular be assumed from the data gives a sum of the data gives and sum of the derivation of functions of complex variations of functions of complex variations.	tions iven 5 3	CO6, L4,L5	

6 Apply states	
	Higher Order Thinking Levels (HOTS)
RBT Classification Lower Order Thinking Levels (LO	S) 1.3 L4 L.3 Creating Analyzing Evaluating Creating
RBT Level Number Understandi	
RBT Level Name Remembering	



			Guru Nanak De	v Engineering College, Lud	hiono		
		Dep	partment Of Co	omputer Science and Eng	ineering	- Ale	
Pro	ogran	1	B.Tech CSE	Semester	3 rd		
Sul	bject	Code	PCCS-102	Subject Title	-	Duc	
		nester Examination	2			JTER NETWO	RKS
<u> </u>	SE)		2	Course Coordinator(s)	Dr. Daljeet Singh		
	x. Ma		24	Time Duration	Dr. Inderjit Singh 1 hour 30 minutes		
	e of I		04/11/2023	Roll Number	22	.D3.4.82	
Not	te: A	tempt all questions			()	For Student on	ly)
Q. 1	No.	William	_	stion		COs, RBT level	Marks
)1	Bryes the solution	on to It.	In which routing algorithm	it exists	CO4,L2	2
<u>- 8</u>	2	In which situations,			1 1	CO6,L4	2
8	3	a) Calculate the number of redundancy bits required for data word i.e. 1010011010 to detect error using hamming code b) Compute the codeword at the sender site using CRC where data word is 1010011010 and the deviser is 10111.					
R	4	Briefly, explain the working of ARP operation and draw its packet format.					4
2	5	Identify the layer detection? Discuss flow diagram.	in TCP/IP protection the working open	rotocol responsible for eration of collision detect	collision ion with	CO3, L4	4
8	a)Transport layer provides the two services: connection oriented and connection less services. Name the protocols involved to provide the service. Draw the header format of both the protocols. b)"Either of two parties involved in exchanging data (client or server) can close the connection". Is it true? If yes explain the procedure.				CO5, L4	8	
Cou	rse C	outcomes (CO)Stude	nts will be able	to			
				o: pologies, Bandwidth utiliza	tion OO	- I TOD OF	- 14
1	rere	rence models.					1 4
2	App	ly data rate limit met	hods and switchi	ng techniques for utilization	n of trans	mission media	
3	prou	ocois for remable tran	smission of fram	niques, flow control, error			
4	Mak	e use of functions of	network layer i.e	e. logical addressing routing	g and cor	ngestion contro	1
_	mee.	danisms for transmiss	sion of packets h	rom source to destination f transport protocols and co			
5	proc	ess to process deliver	y of entire messa	age.			
6	Inter	pret the functions off ocols.	ered by session l	ayer, presentation layer an	d use of a	pplication laye	r
	prott	0015.					

RBT Classification		hinking Levels ((LOTS)	Higher Order Thinking Levels (HOTS)			
RBT Level Number		L2	L3	L4	L5	L6	
RBT Level Name	RBT Level Name Remembering		Applying	Analyzing	Evaluating	Creating	
		Karan		(CSE)			





Guru Nanak Dev Engineering College, Ludhiana Department of Computer Science & Engineering Program B.Tech.(CSE) Semester Subject Code ESCS-101 Subject Title Mid Semester Exam (MSE) No. Max. Marks 24 Course Coordinator(s) Max. Marks 24 Time Duration Date of MSE 7th Sep., 2023 Roll Number Note: Attempt all questions	Digital Electronics Dr. Amit Jain, Pf. I				
Program Subject Code ESCS-101 Subject Title Mid Semester Exam (MSE) No. Max. Marks Date of MSE Note: Attempt all questions B.Tech.(CSE) Semester Subject Title Course Coordinator(s) Time Duration Roll Number	Digital Electronics Dr. Amit Jain, Pf. 1 1 hour 30 minutes				
Mid Semester Exam (MSE) No. Max. Marks 24 Time Duration Date of MSE Note: Attempt all questions	Digital Electronics Dr. Amit Jain, Pf. I 1 hour 30 minutes				
Mid Semester Exam (MSE) No. Max. Marks Date of MSE Note: Attempt all questions Course Coordinator(s) Time Duration Roll Number	Dr. Amit Jain, Pf. I 1 hour 30 minutes				
Max. Marks 24 Time Duration Date of MSE 7 th Sep., 2023 Roll Number Note: Attempt all questions	1 hour 30 minutes				
Date of MSE 7 th Sep., 2023 Roll Number Note: Attempt all questions					
Note: Attempt all questions					
		A			
O No	2203486				
Q. No. Question	COs, RBT	Marks			
	level	Will Ks			
Q1 Compare Synchronous counters and Asynchronous counters.	CO5, L2	2			
Q2 Use a 6 bit R-2R ladder D/A converter having reference voltage of 6.5 vo	lts CO6, L5	2			
to obtain the output for 011100. Also, Find its Percentage Resolution		150 2			
Q3 Demonstrate a binary to gray code converter and a Gray to binary co-	Demonstrate a binary to gray code converter and a Gray to binary code CO3 CO4 I2				
Q4 Illustrate the concept of priority encoder to generate the circuit diagram.					
	CO4, L2	4			
Q5 The output of a flip flop is toggling between 0 and 1. Identify the digit	tal CO5, L4	4			
circuit and discuss its possible states. Also, highlight Race Arous Condition.	nd				
Q6 Implement the following function using Type 0 and Type 1 of MU	X CO4, L5	8			
designing. $f(A,B,C,D) = \Sigma m(0, 1, 3, 4, 6, 8, 12, 14, 15)$. Comment of	on l	J			
changes occur, if would be designed using Type 2 and Type 3?					
Course Outcomes (CO) Students will be able to	11 (13.7)				
Apply the structure of number systems in digital design.					
2 Minimize the Boolean expressions in SOP and POS form using K-maps.		7			
3 Use basic principles of digital logic gates to design digital circuits.					
4 Implement combinational logic circuits using Boolean algebra and logic gates.					
5 Analyze Synchronous and Asynchronous sequential circuits using Flip Flops, re	egisters and Counters	s.			
6 Apply the knowledge of real-world applications of PLDs in industries.	Was a final second				
	er Thinking Levels	(HOTS)			
RBT Level Number L1 L2 L3 L4	L5	L6			
RBT Level Name Remembering Understanding Applying Analyzing	Evaluating C	Creating			

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

	D.TI		
Program:	B.Tech. (CSE)	Semester:	3rd
Subject Code:	HSMCS-101	Subject Title:	Human Values and Professional Ethics
Mid Semester Test (MST) No.:	2 nd	Course Coordinator(s):	Prof. Gurwant Singh Prof. Sukhjeet Singh Dr. Raman Kumar
Max. Marks:	24	Time Duration:	1 hour 30 minutes
Date of MST:	08-11-2023 (Wednesday)	Roll Number:	2203482.

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

Q. No.	Question	COs, RBT	Marks
		level	
QA.	Name two fundamental human rights recognized internationally.	.CO6, L1, L2	2
Q.2.	List two steps that engineers can take to deal with ethical issues.	CO5, L2	2
0,3%	Discuss the relationship between freedom of speech and human rights.	CO3, L2, L3	4
Q 4.	Describe the ethical considerations in international trade and globalization.	CO6, L3, L4	4
Q/5.	Describe the types of inquiries commonly used to analyze ethical dilemmas in engineering.	CO3. CO4. L3. L4	4
Q 6.	Compare and contrast the Universal Declaration of Human Rights and the International Covenant on Civil and Political Rights.	CO2, CO6, L4, L5	8

Garage (CO) Students will be able to

Co	urse Outcomes (CO) Students will be uble to
1.	Discriminate between valuable and superficial in the life.
2.	Encourages students to discover what they consider valuable.
3.	Understand the value required to be a good human being and apply these values in real life.
	Final rate and modify the behavior
1	Understand fundamental and organizational duties and protect individual and social rights.
6	Know about professional behavior, values and guiding principles.

72 27 CI 10 (1)	Lamor Order	Thinking Level	(LOTS)	Higher Orde	Thinking Lev	els (HOTS)
100	Lower Order	L2	L3	1.4	L5	L6
RBT Level Number	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating

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			Guru Nanak Dev E	ngineering Co	ollege, Ludhia	na			
			Department of Con	iputer Scienc	e & Engineerii	ng			
Program			B. Tech.(CSE)	Semester		3			
Subject C			PCCS-101	Subject Tit		Object	Oriented Program	ming	
Mid Seme	ester Exan	n (MSE) No.	2.	Course Co	ordinator(s)	Pf. Kar Pf. Ma	maldeep Kaur npreet Kaur Mand rdeep Singh Kang		
Max. Mar	ks		24	Time Dura	tion		30 minutes		
Date of M			4 th Nov, 2023	Roll Numb			203482.		
Note: Atte	mpt all qu	estions							
Q. No.			Questio	on			COs, RBT	Marks	
ØI	Compare	e early binding ar	nd late binding.			1. 1. 1. 1.	CO4, L2	2	
X	class A int a; public: in protected };	nt b;	ode snippet:				CO4, L4	2	
	<pre>{int x; protected: int y; public: int z; }; Classify the visibility of inherited members in derived class.</pre>								
Q 3	Make us	ke use of 'this' pointer in a program highlighting its importance.					CO5, L3	4	
R 4	Explain	exception handling	ng mechanism along	with its detail	ed syntax.		CO5, L2	4	
Q5 	suitable	example.	ues used to remove			-	CO4, L4	4	
Q6	a file the sa Deve meml	named 'data' usi ume file using see lop the C++ cod bers 'real' and 'i	t will create an objecting constructor methology and tellg() function for given situation imaginary'. Create the 'x+y' using an operation of the control of	od to open the tions. n: Design a c wo objects x	file. Read the	with data	CO6, CO4, L6	8	
Course Or			K-y woning an open	Tunetion.					
Students w	•	,							
1	Explain t	the principles of o	object oriented progr	amming and r	rocedure orien	ted program	ming	-	
2	Design th	ne object-oriented	d programs using cla	sses and obied	ts to enhance c	ode reusabil	ity		
3	Apply th	e concept of cont	rol structures, functi	ons, arrays an	d strings to dev	elop object-	Oriented program	10	
4	Impleme	nt polymorphism	and inheritance in o	bject-oriented	programming	paradiom	oriented program	13.	
5			on the dynamic mem				- 1-7 .	4	
6			in the development		and excepti	on nanding			
RBT	1		hinking Levels (LC		Higher Orde	r Thinking	Levels (HOTS)		
Classificat	ion		7	for the	3.3.3.3.4.	mining	201013 (11013)		
RBT Leve Number	l	Ll	L2	L3	L4	L5	L6		
RBT Leve	l Name	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating		
14			- The state of the		25	~ ratuating	5 Creating		