

**Guru Nanak Dev Engineering College, Ludhiana**  
**Department of Information Technology**

Program	B.Tech.(IT)	Semester	3
Subject Code	ESIT-101	Subject Title	DCLD
Mid Semester Test (MST) No.	1	Course Coordinator(s)	Harpreet Kaur
Max. Marks	24	Time Duration	1 hour 30 minutes
Date of MST		Roll Number	

Note: Attempt all questions

Q. No.	Question	COs, RBT level	Marks
Q1	Justify the use of Gray codes in Digital electronics.	CO2, L2	2
Q2	Explain De Morgan's theorem.	CO2, L4	2
Q3	What are Universal gates? Realize following gates using Universal gates a) Ex-OR      b) OR	CO3, L3	2+2
Q4	Describe SOP and POS forms? How to convert one form to another.	CO2, L4	4
Q5	Convert following: a) $(218.6)_{10} = (?)_{16}$ b) $(110100.1101)_2 = (?)_8$	CO1, L4	2+2
Q6	a) Minimize following Boolean function using K-Map. $f = m(1,4, 5, 6, 11, 12, 13, 14)$ b) Minimize following Boolean function using Boolean laws $F = AB + (AC)' + AB'C(AB + C)$	CO2, CO3, L5	4+4

**Course Outcomes (CO)**

Students will be able to

1	To understand and examine the structure of various number systems and its application in digital design
2	Utilize knowledge of number systems, codes and Boolean algebra to the analysis and design of digital logic circuits
3	Formulate and employ a Karnaugh Map to reduce Boolean expressions and logic circuits to their simplest forms
4	Identify concepts and terminology of digital logic circuits
5	Ability to understand, analyze and design various combinational and sequential circuits
6	To develop skill to build, and troubleshoot digital circuit

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

**Guru Nanak Dev Engineering College, Ludhiana**

**Department of Information Technology**

<b>Program</b>	B.Tech.(IT)	<b>Semester</b>	3
<b>Subject Code</b>	ESIT-101	<b>Subject Title</b>	DCLD
<b>Mid Semester Test (MST) No.</b>	2	<b>Course Coordinator(s)</b>	Harpreet Kaur
<b>Max. Marks</b>	24	<b>Time Duration</b>	1 hour 30 minutes
<b>Date of MST</b>		<b>Roll Number</b>	

**Note:** Attempt all questions

<b>Q. No.</b>	<b>Question</b>	<b>COs, RBT level</b>	<b>Marks</b>
Q1	Differentiate Combinational and Sequential circuits.	CO5, L2	2
Q2	Describe Race around condition in JK Flip Flop and How to remove it.	CO5, L4	2
Q3	Explain the working of 4:2 Encoder. Also list the Application areas of Encoder.	CO5, L2	3+1
Q4	Illustrate the need and working of Carry Look ahead Adder.	CO5, L3	4
Q5	What is the difference between Latch and Flip Flop. Design and implement SR Flip Flop.	CO5, L4	2+2
Q6	Design 2 bit Synchronous Up counter using JK flip flop.	CO5, CO6, L5	8

**Course Outcomes (CO)**

*Students will be able to*

- 1 To understand and examine the structure of various number systems and its application in digital design
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- 3 Formulate and employ a Karnaugh Map to reduce Boolean expressions and logic circuits to their simplest forms
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- 5 Ability to understand, analyze and design various combinational and sequential circuits
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<b>RBT Classification</b>	<b>Lower Order Thinking Levels (LOTS)</b>			<b>Higher Order Thinking Levels (HOTS)</b>		
	L1	L2	L3	L4	L5	L6
<b>RBT Level Number</b>						
<b>RBT Level Name</b>	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating

**Guru Nanak Dev Engineering College, Ludhiana**

**Department of Information Technology**

<b>Program</b>	B.Tech.(IT)	<b>Semester</b>	3 <sup>rd</sup>
<b>Subject Code</b>	PCIT-101	<b>Subject Title</b>	Data Structures
<b>Mid Semester Exam (MSE) No.</b>	1 Aug-Dec, 2023	<b>Course Coordinator(s)</b>	Parminder Kaur Wadhwa
<b>Max. Marks</b>	24	<b>Time Duration</b>	1 hour 30 minutes

**Note:** Attempt all questions

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<b>Q. No.</b>	<b>Question</b>	<b>COs, RBT level</b>	<b>Marks</b>						
<b>Q.1.</b>	Interpret the efficiency of binary search algorithm.	CO1, L2	2						
<b>Q.2.</b>	Create the following circular queue :-  <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>-100</td> <td>-2</td> <td></td> <td>66</td> <td>90</td> <td>30</td> </tr> </table>	-100	-2		66	90	30	CO2, L6	2
-100	-2		66	90	30				
<b>Q.3.</b>	Illustrate the methods to implement priority queue.	CO2, L3	4						
<b>Q.4.</b>	Demonstrate the ways of representing a multidimensional array in the memory of the computer system.	CO3, L3	4						
<b>Q.5.</b>	Design a recursive algorithm to solve Tower of Hanoi problem.	CO6, L6	4						
<b>Q.6.</b>	Design an algorithm to implement the following linked list:- (i) The node must have “data” part to store information of character data type and “next” part to store the address of the next node. (ii) Create a pointer variable “HEAD” to store the address of the first node. (iii) Insert ‘J’, ‘A’, ‘M’, ‘E’, ‘S’, ‘B’, ‘O’, ‘N’, ‘D’ in Linked list (they must occupy nine different nodes). (iv) Display the content of the linked list to the user.	CO2, L6	8						

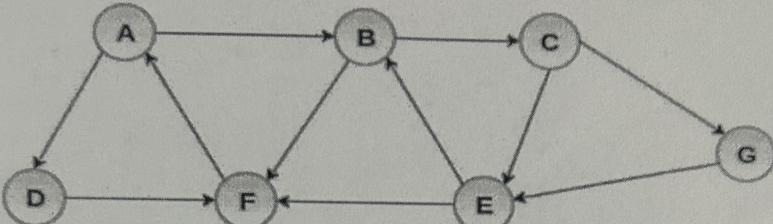
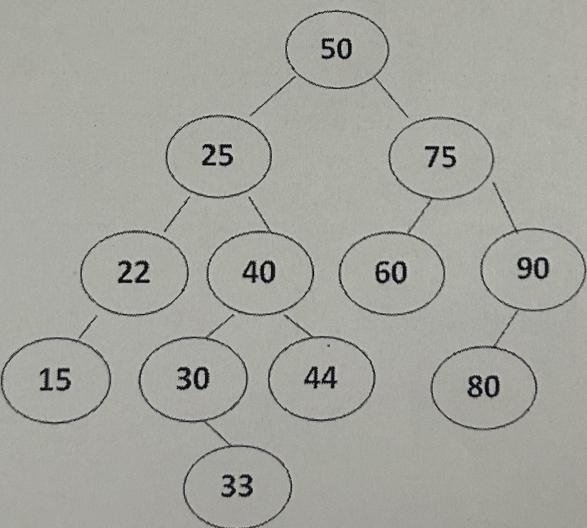
**Course Outcomes (CO) Students will be able to**

CO1	Analyze and compare algorithms for efficiency using Big-O notation.
CO2	Create and evaluate new algorithms to solve complex engineering problems.
CO3	Illustrate various data structures to solve multi-disciplinary projects.
CO4	Utilize the templates for modularity.
CO5	Compare and classify various data structures
CO6	Demonstrate the reusability of data structures for implementing complex iterative problems

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

**Guru Nanak Dev Engineering College, Ludhiana**

<b>Program</b>	B.Tech.(IT)	<b>Semester</b>	3 <sup>rd</sup>
<b>Subject Code</b>	PCIT-101	<b>Subject Title</b>	Data Structures
<b>MSE</b>	MSE-2, Aug-Dec, 2023	<b>Course Coordinator</b>	Er. Parminder Kaur Wadhwa
<b>Max. Marks</b>	24	<b>Time Duration</b>	1 hour 30 minutes

<b>Q. No.</b>	<b>Question</b>	<b>COs, RBT level</b>	<b>Marks</b>
<b>Q.1.</b>	Demonstrate how the depth of a Binary Search Tree effects the average running time $f(n)$ to search an item in it (where $n$ are the number of items).	CO1, L3	2
<b>Q.2.</b>	Appraise the efficiency of <i>open-hashing</i> as a technique to resolve collision.	CO2, L5	2
<b>Q.3.</b>	Consider the following graph and find the minimum path from Node A to Node E.	CO3, L3	4
			
<b>Q.4.</b>	Demonstrate the detailed steps of applying the shell sort algorithm to sort the following unsorted list into ascending order (use <i>Donald Shell's choice</i> of increment to create shells):- 66, 25, 40, 57, 33, 48, 37, 20	CO6, L3	4
<b>Q.5.</b>	Consider the following AVL search tree. Construct the balanced trees if the following operations are applied one after the other (not independently). (v) Insert 20 (ii) Insert 14 (iii) Insert 88 (iv) Delete 22 (v) Delete 25 (vi) Delete 75	CO3, L6	4
			
<b>Q.6.</b>	Suppose the table T (circular) has 15 memory locations. T[1], T[2],...T[15] and suppose the File F consists of 11 records; P, Q, R, A, B, C, V, W, X, D, F with the following hash addresses:- <b>Records:</b> P Q R A B C V W X D F <b>H(k):</b> 2 5 6 4 5 4 9 11 14 14 15 Suppose the records are entered into the table T in the above order. Evaluate the efficiency of the given hash function with linear probing as the collision resolution technique. Also judge the efficiency if <i>chaining</i> method is used and show the memory organization.	CO2, L5	8

<b>Guru Nanak Dev Engineering College, Ludhiana</b> <b>Department of Information Technology</b>			
<b>Program</b>	B.Tech.(IT)	<b>Semester</b>	3
<b>Subject Code</b>	PCIT-102	<b>Subject Title</b>	Object Oriented Programming using C++
<b>Mid Semester Test (MSE) No.</b>	2nd	<b>Course Coordinator(s)</b>	Prof. Harjot Kaur Prof. Sachin Bagga
<b>Max. Marks</b>	24	<b>Time Duration</b>	1 hour 30 minutes
<b>Date of MSE</b>	9 <sup>th</sup> November, 2023	<b>Roll Number</b>	

**Note:** Attempt all questions

<b>Q. No.</b>	<b>Question</b>	<b>COs, RBT level</b>	<b>Marks</b>
Q1	Write C++ program that demonstrates the use of a try-catch block to handle a division by zero error.	CO2, L3	2
Q2	What are the basic steps to open and close a file using file streams in C++.	CO4, L2	2
Q3	<p>Write the output of the following code. Do justify your answer.</p> <pre>#include &lt;iostream&gt; class MyClass { public:     static int count;     int id;     MyClass() {         id = count;         count++;     }     void display() {         cout &lt;&lt; "Object with id " &lt;&lt; id &lt;&lt; " created." &lt;&lt; endl;     } }; int MyClass::count = 1; int main() {     MyClass obj1;     MyClass obj2;     MyClass obj3;      obj1.display();     obj2.display();     obj3.display();      return 0; }</pre>	CO1, L3	4

Q4	Elaborate at least four differences between "call by value" and "call by reference" with reference to the functions used in the program.	CO4, L2	4
Q5	Design a C++ program that models a basic arithmetic calculator with support for both integer and floating-point numbers. Implement unary and binary operator overloading to enable the calculator to perform operations like addition, subtraction, multiplication, and division on user-provided operands.	CO2, L6	4
Q6	Develop a C++ program to create a simple application for managing different types of vehicles. Define a base class "Vehicle" with attributes like name, speed, and a virtual function "displayInfo" that displays the basic information about the vehicle. Then, derive two classes, "Car" and "Bike," from the base class, each with their own unique attributes and override the "displayInfo" function in each derived class to provide specific information about the vehicle type. In your program's main function, create objects of both the "Car" and "Bike" classes, and use a loop to display the information of each vehicle using the base class pointer.	CO6, CO3, L6	8

#### Course Outcomes (CO)

*Students will be able to*

1	Understand the basic concepts of classes, objects and methods as well as basic principles of object-oriented programming.
2	Create object oriented design based on the characteristics of an object-oriented programming language: data abstraction and information hiding, overloading and dynamic binding of the messages to the methods.
3	Apply the concepts of inheritance and relationship among different objects to generate the hierarchies like generalization and aggregation.
4	Investigate the concept of strings, File Handling and Exception handling of Specific Programming Problem
5	Function on a Multi-disciplinary team by using OOPs experiments and Projects.
6	Demonstrate real world applications based on the concepts of OOP in C++..

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

**Guru Nanak Dev Engineering College, Ludhiana**  
**Department of Information Technology**

<b>Program</b>	B.Tech.(IT)	<b>Semester</b>	3
<b>Subject Code</b>	PCIT-102	<b>Subject Title</b>	Object Oriented Programming using C ++
<b>Mid Semester Test (MST) No.</b>	1	<b>Course Coordinator(s)</b>	Pof. Sachin Bagga and Prof. Harjot Kaur
<b>Max. Marks</b>	24	<b>Time Duration</b>	1 hour 30 minutes
<b>Date of MST</b>	27 September 2023	<b>Roll Number</b>	

**Note:** Attempt all questions

**Question**

<b>Q. No.</b>	<b>Question</b>	<b>COs, RBT level</b>	<b>Marks</b>
Q1	List some practical applications or scenarios where declaring and initializing arrays in C++ would be a beneficial programming approach.	CO6, L2	2
Q2	Given a C++ code snippet: <pre>int main() {     int num1 = 10;     int num2 = 0;     int result = num1 / num2;     std::cout &lt;&lt; "Result: " &lt;&lt; result &lt;&lt; std::endl;     return 0; }</pre> Identify and explain any syntax errors or logical errors that you will find in the code.	CO1, L3	2
Q3	Elaborate the principles of structured and object-oriented development impact the efficiency and scalability of software projects in different contexts.	CO1, L2	4
Q4	Develop a code to print a pyramid pattern with user-defined number of rows.	CO1, L6	4
Q5	Examine the significance of member functions within a class. Illustrate your analysis by providing an example in which you thoroughly assess the role of the class's member functions and how they collectively enhance the class's overall functionality.	CO5, L4	4
Q6	Design a menu-driven program that encompasses all functionalities: Sum of Digits and prime number checking. (Make use of concepts like user-defined functions for the stated two tasks, parameter passing)	CO2, L6	8

**Course Outcomes (CO)**

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1	Understand the basic concepts of classes, objects and methods as well as basic principles of object-oriented programming.
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3	Apply the concepts of inheritance and relationship among different objects to generate the hierarchies like generalization and aggregation.
4	Investigate the concept of strings, File Handling and Exception handling of Specific Programming Problem
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<b>RBT Classification</b>	<b>Lower Order Thinking Levels (LOTS)</b>			<b>Higher Order Thinking Levels (HOTS)</b>		
<b>RBT Level Number</b>	L1	L2	L3	L4	L5	L6
<b>RBT Level Name</b>	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating

**Guru Nanak Dev Engineering College, Ludhiana**

**Department of Information Technology Aug- Dec 2022**

<b>Program</b>	B.Tech.(IT)	<b>Semester</b>	3rd
<b>Subject Code</b>	HSIMT-101	<b>Subject Title</b>	PPLE Section A and B
Mid Semester Test (MST) No.	2	Course Coordinator(s)	Dr. Amit Kamra Dr. Kamaljit Kaur
<b>Max. Marks</b>	24	<b>Time Duration</b>	1 hour 30 minutes
<b>Date of MST</b>		<b>Roll Number</b>	

**Note:** Attempt all questions

<b>Q. No.</b>	<b>Question</b>	<b>COs, RBT level</b>	<b>Marks</b>
1	Distinguish between trademarks and copyrights.	C01,L1	2
2	Point out the elements of successful technical resume.	C02,L3	2
3	Write the steps to obtain Patent certificate in India.	C01,L2	4
4	Describe the Coding Standards for DBMS and Networks.	C02,L3	4
5	Illustrate various methods to avoid plagiarism.	C01,L6	4
6	Explain the various types of identity theft. Assume you have made some nice painting and you want to get its copyright. Discuss the procedure of obtaining copyright of this item in India.	C02,L6 C03,L6	8

**Course Outcomes (CO)**

Students will be able to

1	Critically analyze and discuss key characteristics and emerging issues of Professional practice and ethics
2	Articulate and reflect on the industry expectations of competence and conduct in IT related professions.
3	Awareness of types of ethical challenges and dilemmas confronting in IT field
4	Ability to relate ethical concepts and materials to ethical problems in specific professions and professionalism.
5	Interpret and understand the various chapters and sections under Indian IT Act2000
6	Reckon out the need of Intellectual property rights and copyrights

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

Guru Nanak Dev Engineering College, Ludhiana			
Department of Information Technology			
Program	B.Tech.(IT)	Semester	3
Subject Code	MCIT-101	Subject Title	Environmental Sciences
Mid Semester Test (MST) No.	1	Course Coordinator(s)	Prof. Sandeep Kaur Prof. Avneet Kaur
Max. Marks	24	Time Duration	1 hour 30 minutes
Date of MST	25 <sup>th</sup> Sept., 2023	Roll Number	

Note: Attempt all questions

Q. No.	Question	COs, RBT level	Marks
Q1	Describe an ecological pyramid?	CO1, L2	2
Q2	Examine the point and non-point sources of water and air pollution?	CO2, L5	2
Q3	Explain the concept of ecological footprints through an example.	CO1, L3	4
Q4	Identify the ecosystem services provided by forests?	CO3, L2	4
Q5	Contrast the link between water scarcity and food security.	CO4, L4	4
Q6	(a). 'The automobile is one of the worst inventions made by humankind'. Write your view supporting the statement. (b). Formulate the case study explaining how ecological cycle has got disturbed due to climate change.	CO5, L6	8

#### Course Outcomes (CO)

Students will be able to

1	Measure environmental variables and interpret results.
2	Evaluate local, regional and global environmental topics related to resource use and management.
3	Propose solutions to environmental problems related to resource use and management.
4	Interpret the results of scientific studies of environmental problems.
5	Describe threats to global biodiversity, their implications and potential solutions.

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

Guru Nanak Dev Engineering College, Ludhiana			
Department of Information Technology			
Program	B.Tech.(IT)	Semester	3
Subject Code	MCIT-101	Subject Title	Environmental Sciences
Mid Semester Test (MST) No.	2	Course Coordinator(s)	Prof. Sandeep Kaur Prof. Avneet Kaur
Max. Marks	24	Time Duration	1 hour 30 minutes
Date of MST	6 <sup>th</sup> November 2023	Roll Number	

Note: Attempt all questions

Q. No.	Question	COs, RBT level	Marks
Q1	Explain environmental ethics?	CO1, L1	2
Q2	Analyze the factors that how an organization can promote sustainable procurement in green computing?	CO2, L4	2
Q3	Describe two major techniques involved in green computing.	CO3, L2	4
Q4	Identify the issues concerning the resettlement and rehabilitation of displaced groups.	CO2, L2	4
Q5	Compare and contrast the impacts of 4G and 5G technology on environment.	CO4, L4	4
Q6	Examine how information technology influences business, society and environment leading to a sustainable triangle.	CO2, L5	8

#### Course Outcomes (CO)

Students will be able to

1	Measure environmental variables and interpret results.
2	Evaluate local, regional and global environmental topics related to resource use and management.
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4	Interpret the results of scientific studies of environmental problems.
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RBT Classification	Lower Order Thinking Levels (LOTS)			Higher Order Thinking Levels (HOTS)		
RBT Level Number	L1	L2	L3	L4	L5	L6
RBT Level Name	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating

**Guru Nanak Dev Engineering College, Ludhiana**

**Department of Information Technology**

<b>Program</b>	B.Tech.	<b>Semester</b>	6
<b>Subject Code</b>	PCIT-103	<b>Subject Title</b>	DCCN
<b>(MST) No.</b>	2	<b>Course Coordinator</b>	Mohanjit Kaur Kang
<b>Max. Marks</b>	24	<b>Time Duration</b>	1hr 30 mins
<b>Date of MST</b>		<b>Roll Number</b>	

**Note:** Attempt all questions

<b>Q. No.</b>	<b>Question</b>	<b>COs, RBT level</b>	<b>Marks</b>
Q1	How does the framing of information in media and communication impact people's perceptions and decision-making, and can you provide examples of framing effects in real-world contexts?	CO3, L1	2
Q2	Illustrate variations in the control fields of HDLC frames impact the efficiency and reliability of data transmission in a network, and what strategies could be employed to optimize control field usage for specific network requirements?	CO4, L4	2
Q3	Discuss CSMA/CD.	CO4, L3	4
Q4	Write short note on a) ALOHA b) Ethernet	CO3, CO5, L2	4
Q5	Elaborate how error control and correction codes be effectively applied in the context of modern communication systems.	CO4, L4	4
Q6	Analyze and evaluate the complexities of the Data Link layer in network communication, taking into account all its roles and responsibilities in ensuring seamless data transmission and network performance	CO3, CO4, L5	8

**Course Outcomes (CO)**

*Students will be able to*

1	CO1 Understand Network essentials, Network Architecture, TCP/IP and OSI model.
2	CO2 Analyze and solve networking problems in guided and unguided transmission media
3	CO3 Illustrate multi - channel access protocols and IEEE 802 standards for LAN and MAN
4	CO4 Contrast the design issues and working of protocols at different layers of TCP/IP and OSI models
5	CO5 Formulate the various congestion and routing algorithms CO6 Implement the concepts of N/W security and protocols such as HTTP, FTP, Telnet, DNS

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

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**Guru Nanak Dev Engineering College, Ludhiana**  
**Department of Information Technology**

<b>Program</b>	B.Tech.(IT)	<b>Semester</b>	3rd
<b>Subject Code</b>	HSMIT-101	<b>Subject Title</b>	PPLE for IT Engineers
<b>Mid Semester Test (MST) No.</b>	1	<b>Course Coordinator(s)</b>	Dr. Kamaljit Kaur and Dr. Amit Kamra
<b>Max. Marks</b>	24	<b>Time Duration</b>	1 hour 30minutes
<b>Date of MST</b>	Sept, 2023	<b>Roll Number</b>	

**Note:** Attempt all questions

<b>Q. No.</b>	<b>Question</b>	<b>COs, RBT Level</b>	<b>Marks</b>
Q1	Specify the general criteria to become a Professional engineer?	CO1, L2	2
Q2	Is there any benefit of using industry code of practice? Explain.	CO2, L4	2
Q3	Signify the social context of IT and evaluating green computing performance metrics.	CO4, L1	4
Q4	Elaborate skills required for effective functioning in a team environment.	CO4, L3	4
Q5	Define Ethics ? Differentiate between ethical and legal issues related to IT.	CO3, L4	4
Q6	Discuss as a case study as you get a job of a software professional in IT industry. What role you are playing to a) Develop green IT b) Manage professionalism among team members c) Tackling jealousy and envy among your team members.	CO2, L5	8

**Course Outcomes (CO)**

*Students will be able to*

1	Critically analyze and discuss key characteristics and emerging issues of Professional practice and ethics.
2	Articulate and reflect on the industry expectations of competence and conduct in IT related professions.
3	Awareness of types of ethical challenges and dilemmas confronting in IT field.
4	Ability to relate ethical concepts and materials to ethical problems in specific professions and professionalism
5	Interpret and understand the various chapters and sections under Indian IT Act 2000
6	Reckon out the need of Intellectual property rights and copyrights.

<b>RBT Classification</b>		<b>Lower Order Thinking Levels (LOTS)</b>	<b>HIGHER ORDER THINKING LEVELS (HOTS)</b>				
<b>RBT Level Number</b>	<b>RBT Level Name</b>	L1	L2	L3	L4	L5	L6
	Remembering	UNDESTAND ING	APPLYING	ANALYZ ING	EVALUAT ING	CREATING	