

DIPLOMA IN COMPUTER APPLICATION

ASSIGNMENTS

DCA – 1ST SEMESTER



(SESSION 2023-2024)

**Directorate of Distance Education
Guru Jambheshwar University of
Science & Technology
Hisar - 125001**

GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR
DIRECTORATE OF DISTANCE EDUCATION

DIPLOMA IN COMPUTER APPLICATION

Course: Problem solving using C
Paper Code: DCA-11-T

Semester: 1st
Max Marks: 5*3=15

Note: Attempt all questions from the assignment given below.

ASSIGNMENT - 1

- | | |
|--|---|
| Q1. What is an algorithm? Explain with suitable example. | 5 |
| Q2. What is an operator? Explain different operators in C. | 5 |
| Q3. Write algorithm for the following: | 5 |
| a) Write a program to check whether an entered number is odd / even. | |
| b) Write a program to find maximum number between three numbers | |

Max Marks: 5*3=15

ASSIGNMENT - 2

- | | |
|--|---|
| Q1. What is the use of flowchart? What is the general structure of a C program. | 5 |
| Q2. Accept a month in digit from the user. Display the month in words. If number is not between 1 and 12 display message "Invalid Month". (Use 'switch') | 5 |
| Q3. Accept principal amount, rate of interest, and duration from the user. Display Interest Amount and Total Amount (Principal + Interest) | 5 |

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DIPLOMA IN COMPUTER APPLICATION

Course: PC Software
Paper Code: DCA-12-T

Semester: 1st
Max Marks: 5*3=15

Note: Attempt all questions from the assignment given below.

ASSIGNMENT - 1

- Q1. Discuss in detail about operating system architecture with the help of its diagram. 5
- Q2. Describe the role of computer in managing files and folders on disk. 5
- Q3. Explain advance features of MS-Word Mail Merge through suitable example. 5

Max Marks: 5*3=15

ASSIGNMENT - 2

- Q1. Write steps to Freeze, Hide, Split and Merge columns in MS-Excel. 5
- Q2. What is a purpose of Pivot Table and Pivot Chart in Excel? Write steps to create Pivot table and Chart by taking example of your choice. 5
- Q3. What do you understand by computer network? Explain different types of network topologies with the help of their diagrams. 5

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DIPLOMA IN COMPUTER APPLICATION

**Course: Web Designing
Paper Code: DCA-13-T**

**Semester: 1st
Max Marks: 5*3=15**

Note: Attempt all questions from the assignment given below.

ASSIGNMENT - 1

- | | |
|--|---|
| Q1. What is WWW? Explain its important features. | 5 |
| Q2. What are the basic features of a web browser? Discuss in detail. | 5 |
| Q3. Why is website maintenance necessary after development? Discuss in detail. | 5 |

Max Marks: 5*3=15

ASSIGNMENT - 2

- | | |
|---|---|
| Q1. Explain with suitable example the basic tags used to create an HTML document. | 5 |
| Q2. How do you create a Table in HTML? How do you insert data in a Table in HTML?
Explain with suitable example. | 5 |
| Q3. Explain the structure and syntax of XML. | 5 |

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DIPLOMA IN COMPUTER APPLICATION

**Course: Operating System
Paper Code: DCA-14-T**

**Semester: 1st
Max Marks: 5*3=15**

Note: Attempt all questions from the assignment given below.

ASSIGNMENT - 1

- | | |
|---|---|
| Q1. What is Operating System? Explain different types of OS. | 5 |
| Q2. What is Process? Give the difference between a process. | 5 |
| Q3. Explain CPU scheduling? Describe the difference between preemptive and non preemptive scheduling algorithms. Discuss in detail. | 5 |

Max Marks: 5*3=15

ASSIGNMENT - 2

- | | |
|---|---|
| Q1. Define the term deadlock. Explain various necessary conditions for a deadlock to occur. | 5 |
| Q2. What is Virtual Memory? Compare Multiprogramming with Fixed Partition and multiprogramming with Variable Partitions with diagram. | 5 |
| Q3. Differentiate between UNIX and Windows based operating systems. | 5 |

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DIPLOMA IN COMPUTER APPLICATION

Course: Object Oriented Programming Using C++
Paper Code: DCA-15-T

Semester: 1st
Max Marks: 5*3=15

Note: Attempt all questions from the assignment given below.

ASSIGNMENT-I

- Q1. What do you mean by Object-oriented programming and define features of Object-oriented programming? And also explain how it is different than procedure-oriented programming?
- Q2. What is Constructor in C++? Elaborate different types of Constructors with example.
- Q3. Define operator overloading? Explain how to overload unary operator and binary operator.

ASSIGNMENT-II

Max Marks: 5*3=15

- Q1. Discuss friend function with example and list sum of the special properties of friend function.
- Q2. Explain various functions required for random access file operations. What is the difference between opening a file with constructor function and opening a file with open () function?
- Q3. What is exception handling? Explain types of exception handling. What is Try, Catch and Throw? Explain with example.

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