DIPLOMA IN COMPUTER APPLICATION

ASSIGNMENTS

DCA – 1ST SEMESTER

(SESSON 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   **Semester:1st**
Paper Code: DCA-11-T   **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   **Semester:1st**
Paper Code: DCA-12-T   **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   **Semester:1st**
Paper Code: DCA-13-T   **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   **Semester:1ˢᵗ**
Paper Code: DCA-14-T   **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   5

preemptive scheduling algorithms. Discuss in detail.

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++   **Semester:1st**
Paper Code: DCA-15-T   **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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