

Computer Science

(330)

Assignment - I

(Lessons 1-6)

Max. Marks: 25

- Note:** (i) All questions are compulsory. Each question carries equal marks.
(ii) Write your name, enrolment number, AI name and subject etc. on the top of the first page of the answer sheet.

1. Answer any **two** of the following questions.
 - (a) Differentiate between RAM and EPROM?
 - (b) Describe major components of a computer.
 - (c) Differentiate between Inkjet Printer and Laser Printer?
2. Answer any **two** of the following questions.
 - (a) Write short notes on:
 - (i) Computer Processing Operations
 - (ii) Difference between 3GLs and 4 GLs
 - (b) Explain briefly Systems Software and Application Software.
 - (c) Write steps to share a folder using share-level access control and user-level access control.
3. Write short notes on:
 - (i) Star Topology (ii) Protocol (iii) Application Software (iv) Client-Server Architecture (v) E-Commerce

Or

Write the function of following in Windows Operating System:

- (i) My Computer (ii) Desktop (iii) Windows Explorer (iv) My Documents (v) Taskbar
4. What do you understand by Secondary Storage? Discuss any four secondary storage devices.

Or

How do you get connected to Internet using TCP/IP connection and leased line connection?

5. Project work

Write down the necessary steps to carry out the following.

- (a) Create a folder named as 'NIOS-ASG' in C drive of the computer.
- (b) Copy above created folder on Desktop.
- (c) Search above created folder using search command.
- (d) Create a subdirectory with name as 'NIOS-SUB' in above created folder.
- (e) Create a shortcut for MS-DOS on Desktop.

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Assignment - II

(Lessons 7-11)

Max. Marks: 25

- Note:** (i) All questions are compulsory. Each question carries equal marks.
(ii) Write your name, enrolment number, AI name and subject etc. on the top of the first page of the answer sheet.

1. Answer any **two** of following questions
 - (a) Define Integer and floating point type data types.
 - (b) Write the difference between Identifiers and Literals.
 - (c) Differentiation between Data Abstraction and Data Encapsulation?
2. Answer any **two** of the following questions
 - (a) Write a program to:
input two numbers
multiply two numbers
divide two numbers.

OR

Write a program to accept one character grade and depending upon the grade, display the point Grade multiplied with a weightage of 25% (i.e. multiply by 0.25)

Grade	Point Grade
A	5
B	4
C	3
D	2
E	1

- (b) Explain the usage of *If* and *If else* statements?
 - (c) What is the usage of do-while loop? Write a do-while loop that displays numbers.
0, 1, 1, 2, 3, 5, 8, 13
3. Write a program in C++ to:
 - (i) input two strings string1 and string2
 - (ii) find the length of string1
 - (iii) concatenate string1 and string2

Or

Define Inline Function? Write a function to print '*' ten times.

4.
 - (a) Write a program that will find out the multiplication of first columns of two dimensional Arrays of A(2, 2) and B (2, 3) and store result in another Array.
 - (b) Write a program that will find out whether the data entered by the user are present in one dimensional array of 15 elements using binary search.

Or

- (a) Write a program to input 10 characters.
- (b) Write a program to string of 40 characters.
- (c) Write a program to insert a data at 5th location in an array of 10 numbers.
- (d) Write a program to find "new" in the string "I have purchased a new book".

5. **Project Work**

Write a program to

- (a) Input 10 numbers in an Array.
- (b) Sort the Array using Bubble sort method.
- (c) Remove 5th element of the Array.
- (d) Search a number in the Array.

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Assignment - III

(Lessons 12-16)

Max. Marks: 25

- Note:** (i) All questions are compulsory. Each question carries equal marks.
(ii) Write your name, enrolment number, AI name and subject etc. on the top of the first page of the answer sheet.

1. Answer any **two** of following questions
(a) Explain with the help of an example defining Derived class.

OR

Nested structure.

- (b) Define type def and enum statements? Differentiate between the two with the help of an example.
2. Answer any **two** of the following
(a) Compare a Class with an Object.
(b) Explain with the help of examples the difference between public members of a class and private members of a class.
3. Answer any **two** of the following
(a) What is inheritance? Describe its advantages.
(b) What is an open () function?
(c) Write a program for opening a file using constructor function
4. (a) Write a C++ nested structure for the following record using appropriate data type:

Name	Roll No	Marks
		Computer
		Maths
		Hindi
		English
		Arts

- (b) Write brief notes on the following:
(i) Virtual base class
(ii) Creating objects

OR

Explain with the help of examples any **two** of the following.

- (i) Construction with default arguments
- (ii) Nesting of member functions
- (iii) The protected visible mode

5. **Project Work**

Write a program for your family comprising of yourself, mother, father and siblings i.e. brother or sister. The record will consists of three fields, viz., name, relationship (with you) and gender (male or female). The above program should include the following:

- Create a data file of 5 records
- Display a data file
- Append a record (after yours sibling's marriage)
- Modify one of the existing records.