

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) Plotter is one of the output devices. Discuss it briefly.
 - (b) Differentiate between ALU and CU.
 - (c) What is an optical disk? Write down its various categories.
2. Differentiate between any **two** of the following questions.
 - (a) Logical and Physical Record.
 - (b) Assembly Language and High Level Language
 - (c) Data and Information
3. Describe the following terms briefly.
 - (a) Title bar
 - (b) Short cuts
 - (c) Utility Software
 - (d) Coaxial Cables
 - (e) Recycle bin

OR

What are the various ways for transmitting data from one point to another?

4. List our various services available through internet? Briefly explain one of them.

OR

Write short notes on any two of the following:

- (a) Dial-up connection
- (b) Characteristics of Java
- (c) World Wide Web

5. Project work

Write down the necessary steps to carry out the following.

- (a) Create a folder named as 'World Cup' on the desktop.
- (b) Copy the folder "World Cup" to "My Document" folder.
- (c) Change the name of "World Cup" folder in "My Document" with "Games".
- (d) Create a word file with the text "Cricket is one of the most popular games". And save it in the folder "Games" with the file name "Cricket".
- (e) Delete permanently the folder "World Cup" from the 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 literals and its various types in C++.
 - (b) Differentiate between relational and logical operators.
 - (c) Differentiation between implicit and explicit conversion.
2. Answer any **two** of the following questions
 - (a) Write down the structure of C++ program

OR

Write a C++ program that reads two values p and q, exchanges their contents and print the output.

- (b) What is the difference between a keyword and an identifier?
 - (c) Data abstraction is one of the basic concepts used in object-oriented programming. Discuss briefly.
3. (a) Write a while loop that displays numbers 2, 4, 6, 8, ..., 20

OR

Write a do-while loop that displays numbers 1, 3, 5, 7, ... 19

- (b) How many times is the following loop executed?
 - (i)

```
Int s = 0, i = 0;
while (i ++ < 5)
s + = i ;
```

OR

- (ii)

```
Int s = 0, i = 0;
do
s + = i ;
while (i < 5)
```
4. (a) What is a header file? What is its purpose?

OR

Differentiate between getch () and getche () functions

- (b) Write a program which will swap the value of two variables using call-by-value method.

OR

Write a program which will swap the value of variable using call-by-reference method.

5. Project Work

Write a program that will find out whether the data entered by the user present in a one dimensional array of five elements using

- (i) Binary Search
- (ii) Linear Search

OR

Write a program that will sort the given five numbers in ascending order using

- (i) Bubble Sort
- (ii) Selection Sort

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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) Define a structure. Explain with an example "Structure within Structure".

OR

What is the function of "typedef" statement? What is the meaning of the following statement:

Typedef float real;

- (b) Write a C++ nested structure for the record given below. Use appropriate data type:

Emp No.	Emp Name	Emp Address
		House number
		Area
		City

2. Answer any **two** following questions:

- (a) Differentiate between constructor and destructor.
(b) Briefly describe parameterized constructor.
(c) What is the role of a class in data hiding?

3. Answer any **two** of the following

- (a) Explain two ways of opening a file.
(b) What is inheritance? Explain single and hierarchical inheritance.
(c) Define a pointer. Explain "This" pointer with the help of an example.

4. (a) If a pointer ptr points to a variable B, write a statement that represents the contents of B but does not use its name.

- (b) How is a pointer variable different from an ordinary variable?

5. **Project Work**

Write a program for your Friends. The record will consist of five fields viz., name, address, age, gender (male/female) and marks (% marks scored in previous exam). The above program should include:

- Create a data type of 4 records
- Display a data file
- Modify one of the record
- Add a new record