



LBS CENTRE FOR SCIENCE & TECHNOLOGY
PGDCA I SEMESTER REGULAR/SUPPLEMENTARY EXAMINATION –JANUARY 2020
L 102 OOP THROUGH C++

Time: 3 Hrs.

Max. Marks: 100

PART A

I Answer ALL questions in one or two sentences. (Each question carries 1 mark.)

- 1) What is a Flowchart?
- 2) What is the relationship between Class and Object?
- 3) Write two examples of Header Files in C++.
- 4) Name two String Functions in C++.
- 5) What is Scope Resolution Operator?
- 6) Define Unary Operator.
- 7) What is an Abstract Class?
- 8) What is Command Line Argument?
- 9) What is the use of a Pointer Variable.
- 10) What is meant by typecasting?

[10 x 1 =10]

PART B

II Answer any TEN questions from the following. (Each question carries 3 marks)

- 1) Briefly explain Algorithm with the help of an example.
- 2) What is an Array? Briefly explain the different types of Arrays.
- 3) Explain Virtual Function.
- 4) Briefly explain Function Overloading.
- 5) What is a Friend Function? Write the syntax to declare a Friend Function.
- 6) What are the different access specifiers in C++.? Specify the purpose of them.
- 7) What is Append Mode of opening a file?
- 8) Illustrate the use of Conditional Operator in C++.
- 9) Write the general form of Class declaration with an example.
- 10) What is the difference between a Constructor and a Destructor?
- 11) What is the use of Copy Constructor?
- 12) How will you declare an array of Objects?
- 13) Draw any three Flowchart symbols and state their purposes.
- 14) Draw the Stream Class hierarchy in C++.
- 15) Name any three modes of File opening.

[10 x 3 =30]

PART C

III Answer any FIVE questions from the following. (Each question carries 12 marks)

- 1) Explain the features of Object Oriented Programming.
- 2) Explain the various operators in C++.
- 3) Explain the Control structures in C++.
- 4) Explain the different types of Inheritance in C++.
- 5) Write a C++ program to find the largest element in a matrix.
- 6) Explain Operator Overloading with an example.
- 7) Write a C++ program to sort an integer Array in Descending Order.
- 8) Explain the various IO manipulators in C++.
- 9) Write a C++ program to Copy a file.
- 10) Explain Templates in C++.

[5 x 12 = 60]