LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – **COMPUTER SCIENCE**

THIRD SEMESTER – **APRIL 2022**

16/17/18UCS3MC02 – OBJECT ORIENTED PROGRAMMING USING C++

Date: 27-06-2022   Dept. No.   Max. : 100 Marks
Time: 09:00 AM - 12:00 NOON

PART – A   (10x 2 = 20 Marks)

Answer ALL the questions

Q. No

1   List out the basic concepts of object-oriented programming.

2   Define a variable in C++. Give example

3   What is a member function?

4   Define classes and objects

5   Define a constructor.

6   What do you mean by type conversion?

7   What is a virtual function?

8   Define Inheritance.

9   List out the different file opening modes.

10 Define an exception

PART – B   (5 x 8 = 40 Marks)

Answer ALL the questions

11 a) Explain call by value and return by value with example program.

OR

b) Explain the different ways of placing the member function in the class with example.

12 a) Explain function overloading with an example program.

OR

b) Write a program to illustrate objects as function arguments.

13 a) What is operator overloading? Explain unary operator overloading with example.

OR

b) What is dynamic constructor? Explain with example.

14 a) Explain pointer to object with example.

OR

b) Write a program to demonstrate the Multiple Inheritance.

15 a) Explain file operations with example.

OR

b) Describe the unformatted I/O operations in C++.

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PART – C   **(2 x 20 = 40 Marks)**

Answer any TWO questions

16 a) Describe call by reference and return by reference with an example program.

    b) What is an array of object? Explain about passing array of object as function argument with a example program.

17 a) Explain default and parameterized constructor with example.

    b) Describe constructor overloading with example program.

18   a) What is an exception? Explain exception handling with example.

    b) Explain hierarchical inheritance with example.

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