LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – **COMPUTER APPLICATIONS**

FIRSTSEMESTER – APRIL 2018

17/16PCA1MC02- OBJECT ORIENTED PROGRAMMING THROUGH C++

Date: 02-05-2018   Dept. No.   Max. : 100 Marks
Time: 01:00-04:00

PART – A

Answer all Questions: **10 x 2 = 20**

1. What are the applications of oops?
2. What are preprocessor directives? List them.
3. Mention the features of friend function.
4. Define pointer. State the use of pointer.
5. Define abstract class.
6. Mention the operators that cannot be overloaded.
7. What is a file? List the various file opening modes.
8. What is exception? List its types.
9. What are generic classes? Write the general form of generic class declaration.
10. State the uses of the keywords, typename and export.

PART – B

Answer all Questions: **5 x 8 = 40**

11. a. Write short notes on the basic concepts of C++.

(OR)

   b. Write short notes on storage class specifiers.

12.a. Write a C++ program to display student details using array of objects.

(OR)

   b. Explain the different categories of function with example.

13.a. Explain friend function with an example.

(OR)

   b. Illustrate the ambiguity in multiple inheritance with an example.

14.a. Illustrate different ways of opening a file with example.

(OR)

   b. Explain the following with example

      i. catch multiple exceptions.

ii.catch all exceptions.

15.a. Illustrate the general process of swapping two values using generic functions.

(OR)

b. "Illustrate the explicit overloading of generic functions.

PART-C

Answer any TWO Questions: **2 X 20 = 40**

16.a. Explain the various types of operators with an example for each

    b. Explain the following:

               i. Features of constructors.(3 marks)

               ii. Types of constructors (7 marks)

17.a. Explain the following with example

               i. unary operator overloading

               ii.virtual function.

    b. Write short notes on the exception handling mechanism

18.a. Illustrate explicit class specification with an example.

    b. Explain any four control statements with example for each.

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