

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIRST SEMESTER – NOVEMBER 2019

16/17/18PCA1MC02 – OBJECT ORIENTED PROGRAMMING THROUGH C++

Date: 30-10-2019

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART – A

Answer all Questions:

10 x 2 = 20

1. What are the data types used in C++?
2. Mention the basic concepts of OOPs.
3. What is a pointer? State the use of & and * operator.
4. Mention the features of friend function.
5. State the use of new and delete operators.
6. Define polymorphism. Mention its types.
7. What are command line arguments?
8. What are the basic tasks of error handling?
9. What are generic functions? Write the general form of template function definition.
10. Mention few GUI libraries.

PART – B

Answer all Questions:

5 x 8 = 40

- 11.a. Write short notes on storage class specifiers.
(OR)
b. Explain the types of expression statements used in C++ with examples.
- 12.a. Explain the categories of functions with example for each.
(OR)
b. Illustrate the pointers to arrays with an example.
- 13.a. What is operator overloading? Explain unary operator overloading with an example.
(OR)
b. Illustrate virtual function with an example.
- 14.a. Explain the different methods of opening file with an example.
(OR)
b. Explain exception handling mechanism with an example.
- 15.a. Illustrate the general process of swapping two values using generic functions.
(OR)
b. Explain how stack can be used to store objects of any type.

PART-C

Answer any TWO Questions:

2 X 20 = 40

16.a. Explain the following with an example

- i. any two selection statements.
- ii. any two iteration statements.

b. Explain in detail about the operators used in C++.

17.a. “Ambiguity in multiple inheritance”-Explain with an example.

b. Explain the following

- i. Throwing an exception from a function outside try block.
- ii. Localizing try block to a function.

.18.a. Illustrate the compacting of array using generic functions with an example.

b. Explain the types of constructors with an example.
