



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

SECOND SEMESTER – APRIL 2017

16UCA2MC01 - PROGRAMMING TECHNIQUES

Date: 22-04-2017
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

Part A

Answer ALL the Questions

(10 * 2 = 20)

1. Differentiate Constants and Variables.
2. Differentiate if else and switch case.
3. Give the uses of Library Functions.
4. Define Recursive function.
5. What is an Enumerated Data type?
6. Give the various modes of opening a file.
7. What is a virtual function?
8. Define Friend Function.
9. Give the uses of this pointer.
10. What are the three streams that are used for file processing?

Part B

Answer ALL the Questions

(5 * 8 = 40)

11. Discuss about the Datatypes and Operators in C.
(or)
Differentiate While and Do while with an example Program.
12. What is a Storage Class? Explain its types.
(or)
Define Functions. Give its uses. Explain user defined function with an example.
13. Differentiate Structures and Unions with examples.
(or)
Write short notes on Command Line Arguments.
14. Explain Inline functions with examples.
(or)
Explain how default arguments can be used as an alternative to function overloading.
15. Define Constructor. Explain its types with examples
(or)
What is an exception? Explain how they are handled in C++.

Part C

Answer Any TWO Questions

(2 * 20 = 40)

16. (a) Define Array. Give its uses. How is it declared and processed? Explain its types with suitable example.

(b) How strings are declared and initialized? Explain any four string handling functions.

17. (a) Write a C Program to write and read the contents of the file.

(b) C++ is an Object Oriented Programming Language. Justify

18. (a) Define Inheritance. Explain its types with example.

(b) Write a Program to sort an array of int, float and double using templates.
