



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.C.A.DEGREE EXAMINATION – COMPUTER APPLICATIONS

SECOND SEMESTER – APRIL 2019

16/17/18UCA2MC01– PROGRAMMING TECHNIQUES

Date: 04-04-2019
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

Part A

Answer ALL the Questions

(10 * 2 = 20)

1. Give the key difference between Structured and Procedure oriented programming.
2. Differentiate break and continue.
3. Give the C statements to read and write a string.
4. Define Recursion.
5. State the uses of Enumerated data types.
6. Give an example of structure within a structure.
7. What are inline functions?
8. Define Virtual functions.
9. Define Destructor. How is it declared?
10. Define Polymorphism.

Part B

Answer ALL the Questions

(5 * 8 = 40)

11. Differentiate While and Do While with an example code.
(or)
Write a C Program to find the maximum and minimum element in an array of numbers.
12. Write a C Program to declare a string and apply any four string functions on it.
(or)
Discuss about storage classes.
13. Differentiate Structures and Unions with an example.
(or)
Explain the uses of command line arguments with an example code.
14. Explain how Default arguments can be used as an alternative to function overloading
(or)
Write short notes on Friend functions.
15. Define Inheritance. Explain its types.
(or)
Write short notes on Templates and Exception Handling.

Part C

Answer Any TWO Questions

(2 * 20 = 40)

16. (a) Define an Array. How is it declared and processed? Explain its types.
(b) State the uses of functions. Explain call by value and reference with suitable example.
17. (a) Give all the types of file and various modes of Opening it Also discuss about all the I/O operations in files.
(b) Discuss about OOPs Concepts and its Applications.
18. (a) Define Constructors. Explain its types with suitable examples.
(b) Elaborate on Data types and Operators in C.

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