

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**



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

**SECOND SEMESTER – APRIL 2018**

**17/16UCA2MC01- PROGRAMMING TECHNIQUES**

Date: 24-04-2018

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

**PART-A**

**ANSWER ALL THE QUESTIONS:**

**( 10 x 2 = 20 marks )**

1. What are the features of C++ Program?
2. State the use of continue statement in C.
3. Write any four string functions.
4. Define recursive functions.
5. What is a bit fields?
6. List any four file handling functions.
7. What are the benefits of OOPs?
8. What is a friend function?
9. Define constructors.
10. What are the different file modes in C++ I/O streams?

**PART-B**

**ANSWER ALL THE QUESTIONS:**

**( 5 x 8=40 marks )**

11. a) Explain in detail about the different datatypes used in C.

**(Or)**

- b) Describe about an initialization of one dimensional and multidimensional arrays with an example.

12. a) Explain the following string functions with an example.

(i) Strlen ( )      (ii) Strcpy ( )      (iii) Strcat ( )      (iv) Strcmp ( )

**(Or)**

- b) Explain the types of user defined functions based the arguments and return values.

13. a) What are array of structures? Write a program to illustrate the use of it.

**(Or)**

b) Describe different methods of opening a file in C.

14. a) Explain default constant arguments with an example.

**(Or)**

b) Explain virtual functions with an example.

15. a) Discuss in detail about the formatted console I/O operations with an example.

**(Or)**

b) Explain three constructs for exception handling in C++.

### **PART-C**

**ANSWER ANY TWO QUESTIONS:**

**( 2\*20=40 marks)**

16.a) Explain in detail about the control structures in C.

b) Describe storage classes in C.

17 a) Write a C program to implement command line arguments for multiplying two numbers.

b) Discuss in detail about the Object Oriented Programming paradigm.

18. a) Explain the different types of constructors used in C++.

b) What is operator overloading? Write a C++ program to illustrate it.

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