

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.
