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SECOND SEMESTER B.C.A. DEGREE EXAMINATION, APRIL 2019
(CUCBCSS – UG)
CC15U BCA2 B02 – OBJECT ORIENTED PROGRAMMING WITH C++
(Core Course: Computer Application)
(2015, 2016 Admissions Supplementary)

Time: Three Hours   Maximum: 80 Marks

I. Answer the following:

1. The Greek term Polymorphism means _____

2. The wrapping up of data and functions into a single unit is known as _____

3. Write down any one use of a scope resolution operator.

4. _____ and _____ are the two memory management functions in C++.

5. Function declaration is also called _____

6. Compile time polymorphism is also called _____

7. When a base class derives two classes, one of the class is made _____ to avoid duplication.

8. Write down the difference between get() and getline().

9. The header file of width() is _____

10. List out the ways by which we could open a file.

(10 x 1 = 10 Marks)

II. Answer *all* questions. Each question carries 2 marks.

11. What are command line arguments?

12. What is a this pointer?

13. What is an abstract class?

14. What is a friend function?

15. What is a copy constructor?

(5 x 2 = 10 Marks)

III. Answer any *five* questions. Each question carries 4 marks.

16. What are templates? Explain the class templates with an example.

17. What are virtual functions? Distinguish between virtual functions and pure virtual functions.

18. Differentiate multilevel and multiple inheritance.

19. Distinguish between call by value and call by reference.

20. Explain operator overloading with an example.

21. Write a program to implement function overloading.

22. Explain the concept of class and objects in detail.

23. Elaborate operators in C++.

(5 x 4 = 20 Marks)

IV. Answer any *five* questions. Each question carries 8 marks.

24. Explain the basic concepts of object oriented programming with suitable examples.

25. Explain the decision making and control structures in C++ with examples.

26. What is a constructor? Explain the different types of constructors.

27. Elaborate on inheritance and the different types of inheritance.

28. What are C++ stream classes? Explain the I/O operations in C++.

29. What are files? Explain the different file handling functions.

30. What are data types? Explain the various data types.

31. What are pointers? Explain the uses of pointers in C++ programming.

(5 x 8 = 40 Marks)

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