16U226   (Pages: 2)   Name……………….

Reg. No……………….

SECOND SEMESTER B.C.A. DEGREE EXAMINATION, MAY-2017
(Regular/Supplementary/Improvement)

(CUCBCSS – UG)

CC15U BCA2 B02 – OBJECT ORIENTED PROGRAMMING WITH C++

(Core Course: Computer Application)

(2015 Admission Onwards)

Time: Three Hours   Maximum: 80 Marks

I.   Answer the following

1. What is a token?
2. The memory size needed for a double data type in C++ is ……..
3. ……….. is used to implement run time polymorphism
4. ……….. Operator is used to define a function outside class.
5. ……………….. is an insertion operator.
6. The process of a function calling itself is…………………
7. The function that has no return type is…………………….
8. Write the syntax of define a class.
9. .... stream statement is used to read data from a file
10. C++ operator used for logical AND is …….

(10x1=10 marks)

II.   Answer all questions

11. What is array of objects?
12. Write rules for virtual functions
13. What do you mean by class templates?
14. What is the difference between break and continue statements?
15. Write a C++ program to find sum and reverse of a number using object and class.

(5x2=10 marks)

III.   Answer Any Five

16. Explain various looping statements in C++?
17. Explain with example use of constructor overloading in C++.
18. Write C++ program to implement binary operator overloading.
19. Explain various functions to manipulate file pointers.
20. Why it is necessary to make a base class virtual base class. Explain.
21. Explain how to overload friend functions.
22. Write C++ program to write data to a file and read it.
23. Explain how constructors in derived classes work with suitable example.

(5x4=20 marks)

IV. **Answer any Five**

24. Explain various stream classes.
25. Explain various types of constructors with example.
26. Write C++ program to add two time using operator overloading.
27. Explain how to define a class and various types of member functions.
28. Explain various inheritance techniques with example.
29. Explain with example command line arguments.
30. Explain concepts of nesting of classes and containership with example.
31. Write short essay on various C++ operators.

(5x8=40 marks)

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