



M 8856

Reg. No. :

Name :

II Semester B.C.A. Degree (CCSS – 2014 Admn. – Regular)
Examination, May 2015
CORE COURSE

2B03 BCA : Object Oriented Programming Using C++

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One** word answer :

- a) The method by which object of one class gets the properties of objects of another class is known as _____
- b) In C++, _____ facility is used to implement communication between various objects.
- c) A function which is not in the scope of the class, but it has full access to the private data members of the class is known as _____
- d) A constructor that accepts no parameters is called the _____ constructor.
- e) If all the member functions of one class act as friend functions of another class, then the former class is called _____
- f) _____ operator is used in C++ to dynamically allocate the memory.
- g) In C++, the concept of _____ provides a facility to assign values to function parameters when the function is declared.
- h) The symbol ~ is used to represent _____ (8×1/2=4)

SECTION – B

Write short notes on **any seven** of the following questions.

2. Distinguish between data abstraction and encapsulation.
3. Explain dynamic initialization of variables.
4. What does polymorphism means in C++ language ?
5. List out the different uses of scope resolution operator.

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6. How dynamic initialization of objects is achieved in C++ ?
7. Differentiate between static data members and static member functions.
8. Explain the concept of reference variables with example.
9. Explain about virtual base class.
10. Differentiate between istream and ostream in C++.
11. Describe any two file stream classes. (7×2=14)

SECTION – C

Answer **any four** of the following questions.

12. What are the advantages of using an in-line function ?
13. Compare private, public and protected data.
14. Write a program to create a class string. Overload == operator to compare two strings.
15. Differentiate between constant pointer and pointer to a constant.
16. Write a C++ program to add two complex numbers.
17. Write a C++ program to read a list of names from a file and output the list. (4×3=12)

SECTION – D

Write an essay on **any two** of the following questions.

18. Explain different types of inheritance with example.
19. What do you mean by a friend function ? Explain with help of an example program, how friend functions act as a bridge between two different classes.
20. Explain the role of virtual functions in implementing run-time polymorphism.
21. Write short notes on : (2×5=10)
 - a) Operator overloading.
 - b) Manipulators in C++.