3rd Semester, Examination–2014

BCA-11 (Bachelor of Computer Applications)

BCA-08

Object-Oriented Programming Through C++

Time : 3 Hours   **Maximum Marks :** 60

Note : The question paper is divided into three sections A, B and C. Give the answer according to the directions given in each section.

Section-A

(Long Answer Type Questions)

Note : Answer any two questions. Each question carries 15 Marks.

(2×15=30)

1. What is a constructor ? Explain types of constructor with example.

2. Explain Inline function and Function overloading with the help of an example.

3. What are input and output streams ? Explain various streams available in C++.

4. What is object oriented programming ? Explain features of object oriented programming language.

Section-B

(Short Answer Type Questions)

Note : Answer any four questions. Each question carries 5 Marks.

$$(4 \times 5 = 20)$$

1. What is the use of scope resolution operator ?

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2. Explain the use of this pointer.

3. What is a template ? List the merits and demerits of using a template in C++.

4. Write a program to reverse a string using recurison.

5. Differentiate between macros and functions ?

6. Write a note on Copy constructors.

7. Differentiate between class and object.

8. What is polymorphism ?

Section-C

Objective Type Questions (Compulsory)

Note : Answer all questions. Each question carries 1 Mark.

$$(10 \times 1 = 10)$$

1   Which of the following type of class allows only one object of it to be created ?

   (a)   Virtual class   (b)   Abstrct class

   (c)   Singleton class   (d)   None of the above

2.   Which of the following is not a type of constructor ?

   (a)   Copy constructor   (b)   Friend constructor

   (c)   Default constructor   (d)   None of the above

3.   Which of the following terms is used for a function defined inside a class ?

   (a)   Member Variable   (b)   Member function

   (c)   Class function   (d)   Classic function

4.   Which of the following is not a type of inheritance ?

   (a)   Multiple   (b)   Multilevel

   (c)   Distributive   (d)   Hierarchical

5.   Which is not a loop structure ?

   (a)   for   (b)   do while

   (c)   while   (d)r repeat until

6. A pointer is a .... that holds memory address.

    (a) Variable   (b) Array

    (c) Stack   (d) None of the above

7. Variables that are defined within a function are called :

    (a) Local Variable   (b) Global Variable

    (c) Both a & b   (c) None of the above

8. A .... is a memory location that is shared by two or more different types of variable.

    (a) Unions   (b) Structure

    (c) Variable   (d) None of the above

9. Inheritance is the process by which one object can acquire the properties of antoher :

    (a) Class   (b) Object

    (c) Union   (d) None of the above

10. Classes are created using the keyword :

    (a) Object   (b) Class

    (c) Both a & b   (d) None of the above