BCA-10

June - Examination 2016

BCA Pt. II Examination

Object Orientated Programming in C++

Paper - BCA-10

Time : 3 Hours]   **[Max. Marks :- 100**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A $10 \times 2 = 20$
(Very Short Answer Questions)

Note: Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

1)   (i)   What is pointer?

     (ii)   When is the destructor called?

     (iii)   List the features of OODBMS.

     (iv)   What do you mean by tokens?

     (v)   What is the use of Type Cast Operator?

     (vi)   What is the use of 'this' pointer?

     (vii)   How do you initialize an array?

     (viii)   Define Polymorphism.

(ix) When we declare global variable?

(x) Name some control structures in C++.

Section - B $4 \times 10 = 40$

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 10 marks.

2) Explain the simple structure of C++ program with example.

3) Write a program in C++ to read any ten numbers and find sum and average.

4) What do you mean by function prototyping? Compare call by value and call by reference.

5) What is class? How does it accomplish data hiding?

6) Why do we need to use constructor?

7) What is Inline function? How it is different from Macro? Explain with example.

8) What do you mean by static data member of a class? Explain the characteristics of a static data member.

9) What are streams? Explain the hierarchy of stream I/O classes.

Section - C $2 \times 20 = 40$

(Long Answer Questions)

Note: Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 20 marks.

10) What is friend function? What is a friend class? Where must the declaration of friend function appear?

11) What is an exception? How you handle exception in C++? Can have multiple catch blocks with single try block? Explain with example.

12) What are manipulators? Write the general form of the user defined manipulators.

13) Write short note on the following:

   (i)   Operator overloading

   (ii) Inheritance

   (iii) Abstraction

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