

**BCA-10**

December - Examination 2017

**BCA Pt. II Examination****Object Orientated Programming in C++****Paper - BCA-10****Time : 3 Hours ]****[ Max. Marks :- 100**

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

**Section - A****10 × 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 up to 30 words. Each question carries 2 marks.

- 1) (i) Write the elements of the computer user environment?
- (ii) What is Inheritance?
- (iii) Define Data Abstraction?
- (iv) What is Dynamic Initialization of objects?
- (v) What do you understand by Function Overloading?
- (vi) What is Polymorphism?
- (vii) Define User Defined Data Types?

- (viii) What do you mean by Tokens?
- (ix) What do you mean by Control Structure?
- (x) Write about Friend and Virtual Functions.

**Section - B****4 × 10 = 40**

(Short Answer Questions)

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

- 2) Discuss the Static Member Functions.
- 3) Explain the functioning of Structure, Union and Class.
- 4) Discuss the Specification of a Class in C++ with an example.
- 5) Describe the functioning of Default Arguments in Oops.
- 6) Explain the difference between call by Reference and Return by Reference by example.
- 7) Describe various types of Operators in C++ with an example in brief.
- 8) Describe Scope Resolution Operator.
- 9) Explain the functionality of Nesting of Member Function.

**Section - C****2 × 20 = 40**

(Long Answer Questions)

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

- 10) Describe the Functioning of Overloading Unary Operator.
  - 11) Explain the various forms of Inheritance with examples.
  - 12) Explain all types of Polymorphism with examples.
  - 13) Explain all types of Pointers with examples.
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