

BCA-10

December - Examination 2018

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 × 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 Inline function?
- (ii) What is constructor?
- (iii) What do you mean by abstract class?
- (iv) What is encapsulation?
- (v) What is friend function?
- (vi) What is a scope resolution operator?
- (vii) What are the differences between a C++ struct and C++ class?

- (viii) What is 'this' pointer?
- (ix) What is virtual base class?
- (x) What is overriding?

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) Specify the need for command line arguments with an example.
- 3) Explain friend function and friend class with example.
- 4) Explain operator overloading with example.
- 5) Why we use constructor? Explain constructor overloading in C++.
- 6) What is Virtual function? How does it differ from a Pure Virtual Function? Also, give an example of a Pure Virtual Function.
- 7) Discuss the basic concept of Object Oriented Programming.
- 8) Discuss about 'this' pointer and pointer to derived classes.
- 9) Discuss the type conversion.

Section - C**2 × 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) Write short note on:

a) File pointer

b) Update a file

11) Explain the operator's manipulators and Input Output statements in C++ with examples.

12) Explain the method of implementing a stack in C++.

13) What is an Inheritance? Explain different type of inheritance.
