

BCA-10

June - Examination 2017

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. Maximum in 30 words. Each question carries 2 marks.

- 1) (i) Define encapsulation.
- (ii) How is class declared in C++?
- (iii) What are virtual base classes?
- (iv) Define single inheritance.
- (v) What are pure virtual functions?
- (vi) When do we declare a member of class static?
- (vii) Define Late Binding.
- (viii) What is an inline function?
- (ix) Define Type Conversion.
- (x) What is preprocessor directive?

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) Differentiate between OOP and POP.
- 3) Explain Control Structure in C++ with example.
- 4) Explain Static binding. How do virtual functions enable dynamic binding?
- 5) What is function overloading? Explain through an example.
- 6) Explain call by value and call by reference with example.
- 7) Write a C++ program to calculate the factorial of a number using recursion.
- 8) Explain the concept of inheritance with example.
- 9) How private and public member make a difference in C++.

Section - C**2 × 20 = 40**

(Long Answer Questions)

Note: Answer **any two** questions. Maximum in 500 words. Each question carries 20 marks.

- 10) Explain constructor and destructor with example.
- 11) Explain operator overloading with example.
- 12) Define Friend class and specify its importance. Explain with suitable example.
- 13) Explain Command line arguments in C++. Give an illustrative example.