

- (b) Explain Inheritance and its types, advantages with suitable examples in C++. (8)

7. Explain the following with examples :

- (a) Overriding member function in C++ (8)
(b) Static functions and its uses and advantages (8)

UNIT-IV

8. (a) What are Template Classes ? How are these used and useful ? Discuss with examples in C++. (8)
(b) Explain unexpected exception in C++ with suitable examples. (8)
9. Explain the following with examples :
- (a) Exception handling in C++ (8)
(b) Strings and its uses in C++ (8)

Roll No.

97675

B.C.A. 4th Semester

Examination-May, 2017

Object Oriented Programming Using C++

Paper-BCA-208

Time : 3 hours

Max. Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Question 1 is **compulsory**. Attempt **four** more questions, selecting **one** question from each unit. All questions carry equals marks.

1. Answer the following questions briefly : [8×2 = 16]
(a) Discuss Pointer and its two uses.

- (b) Describe two major applications of Abstraction.
- (c) Explain new with an example in C++.
- (d) Discuss derived class in C++ briefly.
- (e) Describe Iostreams in C++ in few lines.
- (f) Differentiate between private and protected in C++.
- (g) Write the uses and advantages of Recursion in C++.
- (h) Explain user defined types in C++.

UNIT-I

- 2. (a) Define Function? How is it useful and used ? Discuss with C++ examples. (8)
- (b) Discuss encapsulation in C++ with an example. (8)
- 3. Explain the following briefly with suitable examples :

- (a) Merits of Object-Oriented Approach (8)
- (b) Data types in C++ (8)

UNIT-II

- 4. (a) Define References. How are these useful and used ? Explain with examples in C++. (8)
- (b) Explain Destructors and its types, uses with examples in C++. (8)
- 5. Describe the following with examples :
 - (a) Use and advantages of Constructors in C++ (8)
 - (b) Memory management in C++ (8)

UNIT-III

- 6. (a) Define Virtual Function? How is it used and useful ? Explain with C++ examples. (8)