

- (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 function and its uses and advantages (8)

**UNIT**

8. (a) What are Template Classes ? How are these used and examples in C++ (8)

- (b) Explain unhandled exception in C++ with suitable examples. (8)

9. Explain the following with examples :

- (a) Exception handling in C++ (8)
- (b) Strings and its application 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 equal marks.

1. Answer the following questions briefly :

[8×2 = 16]

- (a) Discuss Pointer and its two uses.

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

- 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)