BCA-08
Object-Oriented Programming through C++
Bachelor of Comuter Application
(BCA-11/16/17)
3rd Semester
Examination, 2019

Time : 3 Hours   **[Maximum Marks : 80**

Note : This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section–A

(Long Answer Type Questions)

Note : Section A contains Five (05) long-answer-type questions of Fifteen (15) marks each. Learners are required to answer any three (03) questions only.   **(3×15=45)**

1. What do you mean by inheritance? Explain multilevel inheritance with the help of program.

2. Differentiate between array and structures with the help of program.

3. Differentiate between constructors and destructors with the help of program?

4. State the difference between virtual and pure virtual function. Explain the concept of virtual function with the help of program.

5. Write short note on the following :

   (a) File handling

   (b) Abstract class

   (c) Encapsulation

Section–B

(Short-Answer-Type Questions)

Note : Section 'B' contains Eight (08) short-answer-type questions of Seven (07) marks each. Learners are required to answer any Five (05) questions only.

(5×7=35)

1. What do you mean by object oriented programming? How it is differ from procedural programming?

2. What do you mean by selection statement? Explain if-else statement with the help of

program.

3. Differentiate between array and array of object.

4. Write a program in C++ to find the factorial of '5'.

5. Explain friend function with the help of program.

6. What do you mean by file classes?

7. Explain basic data types used in C++.

8. Explain call by value with the help of program.