97675

BCA 4th Semester (Re-Appear) Examination – October, 2020

OBJECT ORIENTED PROGRAMMING USING C++

Paper : BCA-208

Time : 1.45 hours]   *[Maximum 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 examination.

Note : Attempt any *three* questions. All questions carry equal marks.

1. Answer the following questions briefly :
   (a) What is copy constructor ?
   (b) Describe *two* major uses 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 use and advantages of recursion in C++.
   (h) Explain multiple inheritance in C++.

2. (a) Define function ? How is it useful and called ? Discuss with C++ examples.
   - (b) Explain encapsulation and its uses in C++ with an example.

3. Explain the following briefly with suitable examples :
   (i) Merits of Object-Oriented Approach
   (ii) Data types in C++

4. (a) Define references. How these are useful and used ? Explain with examples in C++.
   (b) Explain destructors and its types, uses with examples in C++.

5. Describe the following with examples :
   (i) Use and advantages of constructors in C++
   (ii) Memory management in C++

6. (a) Define friend function. How is it used and useful ? Explain with C++ examples.
   (b) Explain Inheritance and its types, advantages with suitable examples in C++.

7. Explain the following with examples :
   (i) Overriding member function in C++
   (ii) Static functions and its uses and advantages

8. (a) Define template classes. How these are used and useful ? Discuss their applications with examples in C++.
   (b) Explain unexpected exception in C++ with suitable examples.

9. Explain the following with examples :
   (i) Exception handling in C++
   (ii) Strings and its uses in C++