

Roll No.

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.

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- (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++