

B.C.A Semester - 3 (CBCS) Examination**December.-2020 [NEW COURSE]****C++ and Object Oriented Programming (Core)****Time: 1:30 Hours****Marks: 42****Instructions:**

1. Figure to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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- Q.1(A) Answer the following questions. (03)
1. What is Encapsulation?
 2. What is Scope resolution operator?
 3. What is Function Prototype?
- Q.1(B) Answer the following questions (Any Two) (06)
1. List out Looping control structure available in C++ and explain any one.
 2. Explain: Member referencing Operator and Type cast Operator.
 3. Explain default argument with example.
 4. Explain input and output operators in C++.
- Q.1(C) Answer the following questions (Any One) (05)
1. Explain Call by reference and return by reference.
 2. Explain Function Overloading in C++.
- Q.2(A) Answer the following questions. (03)
1. What is Object?
 2. What is Member function?
 3. List out types of constructors.
- Q.2(B) Answer the following questions (Any Two) (06)
1. What is Access Specifier? Explain with Example.
 2. Explain static data member.
 3. Explain concept of dynamic constructor with example.
 4. Explain Array within class.
- Q.2(C) Answer the following questions (Any One) (05)
1. Explain Friend function with example.
 2. Explain object as function argument with example.
- Q.3(A) Answer the following questions. (03)
1. What is Derived Class?
 2. What is Unary and Binary Operators?
 3. What is Containership?
- Q.3(B) Answer the following questions (Any Two) (06)
1. What is type conversion? Explain with example.
 2. Explain Constructors in derived class with example.
 3. Explain briefly manipulation of string using operators.
 4. Explain virtual base class.
- Q.3(C) Answer the following questions (Any One) (05)
1. Explain different types of Inheritance.
 2. Explain concept of Operator Overloading with example.
- Q.4(A) Answer the following questions. (03)
1. What is Pointer?
 2. What is stream?
 3. What is this pointer?

- Q.4(B) Answer the following questions (Any Two) (06)
1. Explain use of Manipulators.
 2. Explain Pointer to derived class.
 3. Explain different stream classes in C++.
 4. Explain Virtual and Pure Virtual Function.
- Q.4(C) Answer the following questions (Any One) (05)
1. Explain getline() and write() function with example.
 2. Explain different formatted I/O operations.
- Q.5(A) Answer the following questions. (03)
1. What is templates?
 2. What is file modes?
 3. What is Command Line argument in C++?
- Q.5(B) Answer the following questions (Any Two) (06)
1. Explain opening and closing of file with example.
 2. What is Class Template? Explain with example.
 3. What is Exception handling in C++?
 4. Explain iterators and containers C++.
- Q.5 (C) Answer the following questions (Any One) (05)
1. Explain Member function Template.
 2. Explain overloading of template function.
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