

B.C.A Semester - 3 (CBCS) Examination**Oct/Nov - 2023 [NEW COURSE]****C++ and Object Oriented Programming(Core)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Q.1(A) Answer the following questions. (03)
1. Define keyword.
 2. Which sign is use for scope Resolution Operator?
 3. Define OOP.
- Q.1(B) Answer the following question. (Any Two) (06)
1. Explain the concept Conditional Structure with example.
 2. Explain Looping structure of cpp & explain any one with suitable example.
 3. Explain Call by reference with suitable example.
 4. Explain Inline function with suitable example.
- Q.1(C) Answer the following question. (Any one) (05)
1. Explain Function Overloading with suitable example.
 2. Explain Structure of C++ Program in brief.
- Q.2(A) Answer the following questions. (03)
1. Define Destructor.
 2. List out types of constructor in CPP.
 3. Destructor never contains a return value [TRUE/FALSE]
- Q.2(B) Answer the following question. (Any Two) (06)
1. Explain Array within Class with suitable example.
 2. Explain Characteristics of Constructor in brief.
 3. Explain Constructor outside the Class with suitable example.
 4. Explain Constructor with default argument with suitable example.
- Q.2(C) Answer the following question. (Any one) (05)
1. Explain Copy Constructor with suitable example.
 2. Define Parameterized Constructor with suitable example.
- Q.3(A) Answer the following questions. (03)
1. Can we overload the unary operator TRUE/FALSE?
 2. What is Type Conversion?
 3. Explain operator overloading in short.
- Q.3(B) Answer the following question. (Any Two) (06)
1. Define Multiple Inheritance with example
 2. Define Hierarchical Inheritance with example.
 3. Explain type conversion with example.
 4. Explain Constructor in derived class in brief with example.
- Q.3(C) Answer the following question. (Any one) (05)
1. Define Unary Operator (++) overloading with example program.
 2. Explain Binary Operator & overload (-) Operator with example program.
- Q.4(A) Answer the following questions. (03)
1. Define RTTI.
 2. Explain formatted IO Operation.
 3. Define Pointer

- Q.4(B) Answer the following question. (Any Two) (06)
1. Explain Default argument with Virtual function with suitable example.
 2. Define Pointer to derived class with example program
 3. Explain Unformatted I/O Operation in brief.
 4. Define Manipulators in brief
- Q.4(C) Answer the following question. (Any one) (05)
1. Difference Rules for virtual function.
 2. Define C++ stream classes in brief with suitable example.
- Q.5(A) Answer the following questions. (03)
1. Define Exception Handling.
 2. Define Iterators.
 3. Define File Pointer.
- Q.5(B) Answer the following question. (Any Two) (06)
1. Explain any five function of file handling in brief.
 2. Explain File Modes in Breif.
 3. Explain Exception handling concept in brief.
 4. Explain Function level template in brief with example.
- Q.5(C) Answer the following question. (Any one) (05)
1. Explain Member function level template in brief with example program.
 2. Define Overloading of template using example program.
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