



Seat No. _____

FN-003-2033002
B. C. A. (Sem. III) Examination
November - 2022
CS-14 : C++ & Object Oriented
Programming

03573



Faculty Code : 003
Subject Code : 2033002

Time : $2\frac{1}{2}$ Hours / Total Marks : 70

- 1 (a) Answer the following questions : 4
- (1) In a class if more than one function with same name is called _____.
 - (2) C language is the subset of language _____.
 - (3) Is C++ language an OOP language ? (True/False)
 - (4) The operator :: is known as _____.
- (b) Attempt any one : 2
- (1) List out all the object oriented concepts supported by C++.
 - (2) Write down applications of C++.
- (c) Attempt any one : 3
- (1) What is inline function ?
 - (2) Explain scope resolution operator in C++.
- (d) Attempt any one : 5
- (1) Write a program to demonstrate the concept of default argument.
 - (2) Write a program to explain the concept of function overloading.

- 2 (a) Answer the following questions : 4
- (1) A constructor having no argument is called _____ constructor.
 - (2) Destructor can be identified by _____ sign.
 - (3) Friend function can be called by using object of the class. (True/False)
 - (4) In C++ _____ is used to initialize class members.
- (b) Attempt any one : 2
- (1) What is static data member ?
 - (2) What is nested class ?
- (c) Attempt any one : 3
- (1) Explain friend function with example.
 - (2) Explain constructor.
- (d) Attempt any one : 5
- (1) Write a program for parameterized constructor.
 - (2) Write a program for destructor.
- 3 (a) Answer the following questions : 4
- (1) Unary operator overloaded using friend function takes _____ argument.
 - (2) Base class A and Base class B both derived in derived class C this situation is known _____ type of inheritance.
 - (3) Tild sign ~ is used to create _____ in C++.
 - (4) Write down types of inheritance available in C++. (only names)
- (b) Attempt any one : 2
- (1) Define inheritance.
 - (2) What is abstract class ?

- (c) Attempt any one : 3
- (1) Explain virtual base class.
 - (2) Write down rules for operator overloading.
- (d) Attempt any one : 5
- (1) Write a program to demonstrate the concept of multilevel inheritance.
 - (2) Write a program to overload binary operator.
- 4 (a) Answer the following questions : 4
- (1) _____ function is initialized with 0.
 - (2) To achieve runtime polymorphism _____ function is used.
 - (3) To set a character in the blank space of a field _____ function is used.
 - (4) The _____ pointer is an implicit parameter to all member functions.
- (b) Attempt any one : 2
- (1) Draw the diagram of c++ stream classes.
 - (2) Write down the names of IOS format functions.
- (c) Attempt any one : 3
- (1) Explain this pointer.
 - (2) Explain virtual function.
- (d) Attempt any one : 5
- (1) Write down program for virtual function.
 - (2) Explain manipulators in detail.
- 5 (a) Answer the following questions : 4
- (1) Full form of STL.
 - (2) Which function is used to open a file ?
 - (3) Ios :: out mode of file is used to _____ in the file.
(Read/write)
 - (4) Can we open a file by using constructor function ?
(true/false)

- (b) Attempt any one : **2**
- (1) What is template ?
 - (2) What is command line argument ?
- (c) Attempt any one : **3**
- (1) Explain exception handling.
 - (2) Explain file modes in brief.
- (d) Attempt any one : **5**
- (1) Write a detailed note on templates with types.
 - (2) Write a program to manage multiple files.
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