

QUESTION BANK - OOPC (CC 111 N)

Sr. No.	Questions
1)	What is OOP? How OOP differs from POP?
2)	Explain any four Basic Concepts of Object Oriented Programming
3)	Define Class and object. Write syntax for accessing a data member and member function of a class. Explain , how to define and access member function inside the class with example.
4)	Describe scope resolution operator with example
5)	Explain call by value and call by reference concept with suitable example. Using reference variables.
6)	Explain function with default argument. Give suitable example
7)	Explain function overloading. Write any three overloaded functions.
8)	Explain the concept of passing object as argument.
9)	Explain static data member and static function with example.
10)	What is inline function? Where inline function is useful? Explain.
11)	Explain friend function with suitable example
12)	Give definition of constructor and destructor? Explain each with suitable example
13)	Explain Parameterized Constructor with suitable example
14)	Write program in C++ to create clone of the object using copy constructor.
15)	Explain constructor in derive class with suitable example
16)	Explain following with suitable example (1) this pointer (2) pointer to object
17)	Explain the use of destructor.
18)	What is virtual functions? Write a program which Illustrate pointer to virtual function
19)	Explain array of object with suitable example
20)	Write program in C++ to overload unary minus operator with the help of operator overloading.
21)	Create a class Time that displays time in hour and minute form. Overload + operator to add two Time Objects.
22)	Explain the type conversion from basic type to class type and from class type to basic type with proper example.
23)	Explain run time polymorphism and compile time polymorphism.
24)	What is inheritance? Give brief of all the types of inheritance in C++.
25)	What is derived class ? Write the syntax of declaring a derived class . Explain different visibility modes .
26)	Explain multilevel inheritance with example.
27)	Write a simple C++ program that show the use of multiple Inheritance
28)	What is abstract class? How it is implemented in C++.
29)	Describe memory management operators in C++.
30)	What is virtual base class explain with example.
31)	Write a C++ program to demonstrate the use of pure virtual function with the use of base and derived class.
32)	Explain the difference between static and dynamic binding.
33)	What is a stream? Describe various stream classes for console I/O operations.
34)	List the file mode parameters.
35)	What is an exception? What are the advantages of using exception handling in a program? Illustrate C++ exception handling mechanism. Explain try, catch and Throw.
36)	Explain with the help of an example why templates are used in programming?

37)	Declare a template class called exam having an array of generic type as a data member, named elements[10]. Define following generic (template) member functions: - sort to arrange elements in ascending order - find_max to find and return maximum from the array Define main to illustrate usage of these functions to process two different types of data.
38)	Explain Components of STL.