***OOP LAB VIVA QUESTIONS (03-11-2022)***

|  |  |  |  |
| --- | --- | --- | --- |
| Question 1 | Question 2 | Question 3 | If more than 3 questions are asked, write down below |
|  |  |  |  |
| difference between overriding and overloading | abstract class | multiple inheritance |  |
| Difference b/w class and object | Difference b/w public and protected variables | What is constructor | Write syntax of copy constructor. Show how to initialize static variable. What is use of super keyword What is this pointer |
| Types of inheritance and multipath inheritance | Why Friend function is used | Why use inline function rather then non inline function |  |
| what is constructor chain | difference between override and overload | what is constructor overloading | order of constructor calling in multilevel and multiple inheritance what is virtual function and why is it used |
| What is abstract class? | Use of abstract class? | What is the need of oop? | 4. Difference between c++ and c? 5. What is overloading ? 6. Types of overloading? 7. Constructor Overloading? 8. Copy constructor mechanism 9. Template  10. If arguments are interchanged in parameterized constructor what happens ? 11. What is exceptional handling? 12. Constructor in inheritance |
| Pure Virtual Function | Operator Overloading Syntax | Abstract Class |  |
| inline function no inline function | what is friend function and its use | explain data abstraction | explain polymorphism overloading and overriding  explain overloading run time and compile time polymorphism |
| Multipath inheritance & its diagram explanation | Pure virtual function & syntax | Abstract class & syntax | Abstraction class, Private class(private members, protected, members and public members difference), Virtual function, Body present or not in abstract class & why, Hierarchical inheritance, Friend function,etc. |
| Types of Inheritance | Inline function | Default arguments |  |
| Different types of inheritance | Reference operator | What is abstract class and state it's uses | What is encapsulation and where data is stored   5 differences between c and c++ |
| Operator overlading | Private public difference | Inheritance multiple |  |
| What is encapsulation | What is inheritance | Friend function |  |
| Inheritance | syntax of inheritance  super classes encapsulation use the meaning of copy constructor.  inline function |  |  |
| Properties of Oops | Static and non static datatype | Function overriding | Difference between structure and classes  Operator overloading Types of inheritance Friend function How to use scope resolution operator |
| 1. What is virtual function and pure virtual function(how to declare a function virtual).Define Abstract base class. | 2.What is static member function and it's use. | 3.Difference between private and protected data member. | 4.Difference in c and c++ 5.class and structure difference 6.what is function overloading and function overriding |
| Question 2 | Question 3 | Question 4 | If more than 3 questions are asked, write down below |
|  |  |  |  |
| difference between overriding and overloading | abstract class | multiple inheritance |  |
| Difference b/w class and object | Difference b/w public and protected variables | What is constructor | Write syntax of copy constructor. Show how to initialize static variable. What is use of super keyword What is this pointer |
| Types of inheritance and multipath inheritance | Why Friend function is used | Why use inline function rather then non inline function |  |

Copy constructor ka syntax

Pvt n protected diff.

Initialosation of static member

Which operator can't be overload-

Ans-(Ternary

-Scope resolution operatpr

-Dot operator)

Super class

Base abstract class

C and cpp diff.

Virtual fn

Func overloading and overriding diff.

Dw class and structure

Multiple, multilevel

Static member func.

-Memory allocation number-1

Data slicing

Func overloading

Virtual and virtual pure func ka diff.

Abstract class and it's adv and

Reference variable what, can we create

Scope resolution operator

-int 5;

Int main()

int 10; ... Q- how to print 5 (ans- cout<< ::5;)

Incapsulation

data hiding in class not in structure

How to make a class abstract

How to make a fn pure.

Dw object n class

What's static member fn

How can youbuse a friend fn to access the pvt members of a class

Inheritance

Fn overriding

Ob.class\_name::fn name- base class fn is called during fn overriding