CS304

Quiz No 2

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Learning With A&I

How can we differentiate between constructor and destructors?

Destructor are preceded by a tilde(~) symbol and constructor are not preceded with any symbol.

If you do not initialize static variable of int type then it is automatically initialized with ____

0

Choose the correct statement

All of the given options

___ associates the objects of the exact two classes.

Binary association

Which of the following is the advantage of inheritance?

Reusability

Member function defined inside a class declaration are __ by default

Public

Class is a single class provides functionally to operate on different type of data.

Template

Which of the following may inherit from an ordinary class?

All of the given

Which of the following represents complete specialization? Template <int.char>

Are called Non-type parameters

Learning With A&I

Which of the following is correct way to define a template class X?

typename<class T > class X {};

Which of the following is a sequence Container?

Vector

In resolution order of function template compiler searches for in the end.

Generic Template

May inherit from a complete specialization.

All of the given option

Which of the following may inherit from an ordinary class?

All of the given option

Which of the following is NOT an Associate Container?

Group

When was specialize a function template .it is called

Function template Overriding

Which of the following types of Inheritance is used to model "Implemented in terms of" relationship?

Private

In case of protected inheritance, public members of base class will be in derived class?

Protected

Learning With A&I

In C++ by default access of classes is .

Private

If there is a pointer p to objects of a base class , and it contains the address of an object of a derived Class, and both classes contain a virtual member function, ding(), then the statement p->ding(); will cause the version of ding() in the class to be executed.

Derived

In case of private inheritance, private members of base class will be in derived class.

Hidden

Defines the order of evaluation of an operator in an expression.

Operator Precedence

Which of the following is the correct syntax of declaring static variable “count” of type int?

Static int count;

Defining a function in class body, the compiler treats that function as:

Inline function

What is the output of the following code?Int main()

{intconst x = 10; cout<< ++x; return 0;}

11

Which of the following statements best describes the Constructor?

Constructor is used to initialize the data members of a class.

Learning With A&I

What will the value of variables a, b, and c after instantiating an object of above class?

Junk Value, 5, Junk value

Which of the following is a strong relationship?

Inheritance binding means that target function for a call is selected at compile time. Static

In case of public inheritance, protected members of base class will be in derived class.

Protected

A template provides a convenient way to make a family of

functions and classes

Function overriding is done in context of,

Derived and base class

In Protected Inheritance the public members of base class become in derived class.

Protected

In resolution order compiler search firstly .

Ordinary function

Compiler generated copy constructor performs .

Both Shallow aperformscopy

A pure virtual function is a virtual function that

causes its class to be abstract

Learning With A&I

Methodologies to the development of reusable software relate to .

Generic programming

In C++ generic programming is done using .

Packages

Consider the code below, class class1{

Private:

Function func1 of class1 is in class2.

Private

When derived class has user defined assignment operator.

Compiler itself calls base Class default constructor.

A Child class can call constructor of its parent class through,

Both from its constructor initialization list or body

How many objects of a given class may be constructed in an application?

As many as the Application asks for

Which of the following is True about Destructor?

All of the given

How many objects are involved in the N-ary association?

More than 3

Learning With A&I

Which of the following can be the behavior of an object "Usman"?

Eat

In C++, Composition is a relationship between and objects.

Parent, Child

Generalization is approach.

Top-bottom

The tells the compiler what task the function will be performing.

Function declaration

Suppose str1, str2 and str3 are objects of class String. Choose appropriate declaration of overloaded Assignment operator for the following statement to work correctly.

String& operator =(const String &);

In operator overloading, which of the following operator takes one or no argument.

<<

Class is blueprint of .

Objects

Polymorphism makes the system:

All of the given

If class B inherits from class A then it contains all characteristics of .

Class A

Learning With A&I

What is meant by multiple inheritance?

Deriving a derived class from more than one base class

_____ Class is a single class provides functionally to operate on different type of Data.

Template

Which of the following may inherit from an ordinary class?

All of the given

Which of the following represents complete specialization?

Template <int.char>

The parameters given in template definition other than those used for mentoring templates types are called

Non-type parameters

Which of the following is correct way to define a template class X?

Typename<class T > class X {};

Which of the following is a sequence Container?

Vector

In resolution order of function template compiler searches for _____in the end.

Generic template

_____ may inherit from a complete specialization.

All of the given option

Learning With A&I

Which of the following may inherit from an ordinary class?

All of the given option

Which of the following is NOT an Associate Container?

Group

Which of the following is NOT casting operator in C++ standard?

Var_cast

Which of the following types of Inheritance is used to model "Implemented in terms of" relationship?

Private

In case of protected inheritance, public members of base class will be _____ in derived Class?

Protected

In C++ by default access of classes is _____.

Private

If there is a pointer p to objects of a base class , and it contains the address of an object of a Derived class, and both classes contain a virtual member function, ding(), then the statement p->ding(); will cause the version of ding() in the _____ class to be executed.

Derived

Suppose we have defined derived class copy constructor but have not defined base class Copy constructor then compiler will,

Use base class default constructor

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In case of private inheritance, private members of base class will be _____ in derived Class.

Hidden

_____ defines the order of evaluation of an operator in an expression.

Operator Precedence

Which of the following is the correct syntax of declaring static variable "count" of type int?

Static int count;

When was specialize a function template .it is called_____

Function template overriding

Which of the following is/are key component(s) of standard Template Library?

All of the given option

Each _____ of a template class by default becomes function template.

Member function

In statement "template<class U,int |=5>"the non type parameter is

Int |

Solution order highest priority is given to _____ in template

Complete template

In case of template specialization ,if compiler cannot find required complete

Partial specialization

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_____ is a pointer which is declared outside the _____

Cursor, Container

Suppose a template class "Test" has a static data member. How many copies of this static daya member following line of C++ code?

Three

In statement template <class T,class U ,int |=5> the non-parameter is _____.

Class U

A template argument is preceded by the keyword _____.

Class.

We can have _____ type of member functions in a class.

All of the given

Which of the following is a strong relationship?

Inheritance

_____ Binding means that target function for a call is selected at compile time.

Static

In case of public inheritance, protected members of base class will be _____ in derived Class.

Protected

A template provides a convenient way to make a family of

Functions and classes

Learning With A&I

Function overriding is done in context of,

Derived and base class

Which of the following is TRUE.

Derived class pointer can be used as Base class pointer

The default inheritance mode is,

Private inheritance

In Protected Inheritance the public members of base class become _____ in derived class.

Protected

In resolution order compiler search firstly _____.

Ordinary function

Compiler generated copy constructor performs _____.

Both Shallow and Deep copy

A pure virtual function is a virtual function that

Causes its class to be abstract

Methodologies to the development of reusable software relate to _____.

Generic programming

In C++ generic programming is done using _____.

Packages

Learning With A&I

Consider the code below,

```
Class class1{
Private:
Void func1();
};
Class class2 : private class1 {
};
```

Function func1 of class1 is _____ in class2.

Private

When derived class has user defined assignment operator.

Compiler itself calls base class default constructor.

A Child class can call constructor of its parent class through,

Both from its constructor initialization list or body

How many objects of a given class may be constructed in an application?

As many as the application asks for

The other name of specialization is _____.

Restriction

How can we differentiate between constructors and destructors?

Destructors are preceded with a tilde (~) symbol, and constructors are not preceded with any symbol.

Learning With A&I

How many entities are there in the following scenario?Ali lives in the house that is near the Tree and he also drives his car.

2

Which of the following is True about Destructor?

All of the given

How many objects are involved in the N-ary association?

More than 3

Which of the following can be the behavior of an object "Usman"?

Eat

In C++, Composition is a relationship between _____ and _____ objects.

Parent, child

If you have three classes in a C++ program A, B, and C where class A inherits from class B, then class _____ contains all the characteristics of class _____.

A, B

In case when we define the function outside the class then we must use the keyword _____ to make the function inline.

Inline

Mermaid is an example of:

Multiple Inheritance

Learning With A&I

Assignment operators are:

Right associative

Generalization is _____ approach.

Top-bottom

The _____ tells the compiler what task the function will be performing.

Function declaration

Uppose str1, str2 and str3 are objects of class String. Choose appropriate declaration of Overloaded assignment operator for the following statement to work correctly.

String& operator =(const String &);

In operator overloading, which of the following operator takes one or no argument.

<<

Class is blueprint of _____.

Objects

Polymorphism makes the system:

All of the given

If class B inherits from class A then it contains all characteristics of _____.

Class A

What is meant by multiple inheritance?

Deriving a derived class from more than one base class

Learning With A&I

In C++, which of the following operator can only be overloaded as a member function of the class?

Stream Extraction Operator: >>

Insertion operator is _____ associative.

Left to Right

In expression c1*c2+c3-c4 which of the following will be executed in first order?

C1*c2

Suppose for a class String, assignment operator is overloaded with following declaration.

Void operator =(const String &);

What will happen when we will write following statement in main()?

Str1 = str2 = str3

Where, str1, str2 and str3 are objects of class String.

Compiler will generate compile time error.

Identify the abstract class from the given statement:

"Vehicle class is base class. Bus, Car, and Truck are derived classes"

Vehicle

Which of the following operators operate on one operand?

Unary Operators

Subtyping means that derived class is behaviorally _____ with the base class.

Compatible

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In _____, Base class can't always be replaced by the derived class.

Specialization

The overloaded '-' operator for Complex class will be called with reference to _____ in the following statement

Complex C3 = C1 – C2;

Complex

What is a class?

A class is a description of a kind of object

In polymorphism, messages can be interpreted in different ways depending upon the _____ class.

Receiver

Suppose there is an object of type Person, which of the following can be considered as one of its attributes?

Name

Which of the following is True about class?

All of the given

In C++, which of the following keywords works only with constructors?

Explicit

Choose correct declaration of overloaded stream insertion operator for class String as non-member friend function.

Friend ostream& operator << ();

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Which of the following classes are used by Amphibious vehicle to inherit characteristics?

Both Land & Water Vehicle

Suppose derived class is inherited from base class. What happens when a derived class object is created?

The constructor of base class is executed before the constructor of derived class.

Suppose str1, str2 and str3 are objects of class String. Choose appropriate declaration of Overloaded assignment operator for the following statement to work correctly.

Str1 = str2 = str3;

String& operator =(const String &);

In C++, which of the following is defined as stream insertion operator?

<<

Choose correct declaration of overloaded inequality (!=) operator for class String as non-Member friend function.

None of the given options

Relationship in which child object gets destroyed if parent object is destroyed.

Composition

How the information hidden within an object can be accessed?

Through its interface

Which of the following defines default constructor for class "Student"?

Student() {//…

}

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The sub-object's life is not dependent on the life of master class in _____.

Aggregation

Hiding the implementation details makes program:

Easy to understand

The functions defined inside the class are by default _____.

Inline

Which of the following statement is TRUE about static function of a class?

It is used to access static data members.

Deconstruct is a function which has the same name as that of class but starts with a —– sign

~

'this' pointer cannot be passed implicitly to _____ functions.

Static Member

Which of the following can be the behavior of an object "Usman"?

Eat

In Object Oriented programming, objects communicate with each other through _____

Messages

Constructor is used to_____the objects of a class.

Initialize

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Which of the following is NOT an access specifier in C++?

Hidden

The other name of subtyping is _____.

Extension

Suppose a class does not have any constructor. What will happen when an object of this class is created?

Compiler will call implicit default constructor.

In case when we define the function outside the class then we must use the keyword _____ To make the function inline.

Inline

In constant member function the type of this pointer is:

Constant pointer to constant data

In _____, base class can be replaced by the derived class.

Extension

We can get the address of a variable stored in a pointer using _____:

& symbol

A child inherits characteristics from its _____.

Parent

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Which of the following function declaration is correct to overload the + operator as member function in complex class?

Complex operator +(const Complex &rhs);

Which of the following is not true about constant member function?

All of the given options

What is the general syntax of overloading Unary Operator as member function of the class?

TYPE & operator OP ();

_____ is creating objects of one class inside another class.

Composition

Which of the following is true about constructor?

All of the given option

Memory is allocated to non static members only, when

Object is created

A child inherit characteristics from its ?

Parents

A post-fix unary operator is implemented in C++ member function with

1 dummy int arguments

Which of the following is the example of objects in school?

Books , pages

Learning With A&I

Suppose student is a class, which of the following constructor with one parameter for class student?

Student()

If you have three classes in a C++ program A, B, and C where class A inherits from class B, then class _____ contains all the characteristics of class _____.

A,C

In ____ base class can be replaced by the derived class.

Extension

The concept of derived class is involved in _____

Inheritance

Suppose person is a class which of the following statement defines an object of class person?

Create person object

Which of the following is true about Accessor Functions?

All of the given options.

The other name of subtyping is

Extension

Which of the following statement best describes the constructor

Constructor is used to initialize the data member of a class.

Which of the following is true about inline function?

It is used by compilers to improve efficiency of the program

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Which of the following is defined as stream extraction operator in c++?

>>

An object has ___ interface(s)

One or more than one

Which of the following is an advantage of encapsulation?

Better understanding

Which of the following represents the two-way association?

Employee works for the company

___ is the weakest link between object.

Simple association

In composition _____ are called from composing objects to compound objects.

Constructor

In OOP we can achieve reusability though _____

Inheritance

Generalization is implemented through

Inheritance

Suppose str1, str2, and str3 are objects of class string. Choose appropriate declaration of overloaded

Assignment operator for the following statement to work correctly.

String& operator=(const String &)

Learning With A&I

In C++ which of the following is defined as stream insertion operator.

<<

Abstraction hides the ___ details.

Relevant

Minimum classes required in a program for implementing multiple inheritance.

3

Composition is _____ and aggregation is _____ relationship.

Strong, weak

Minimum classes required for implementing multiple inheritance.

At least 3

We can access a private static variable through.

Static data member

The process of extracting common characteristics from two or more classes and combining them into generalized superclass is called ___

Generalization

Which of the following is true about polymorphism?

All of the given

Which of the following can be the behavior of an object "Usman"?

Eat

Learning With A&I

Composition is ____ relationship

Part whole

Which of the following is a strong relationship?

Composition

Which of the following defines default constructor for class student?

Student(){/…

}

This car is composed of wheels. What is the relationship between car and wheels?

Composition

In ____ base class can be replaced by the derived class.

Extension

___ defines the order of evaluation of an operator is an expression.

Operator precedence

In composition __ are called from composing objects to composed objects.

Destructor

How many objects of a given class may be constructed in an application?

As many as the application asks for

Relationship in which child object gets destroyed, If parent object is destroyed.

Composition

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Which of the following is not true about constructor?

Constructor is a special function which can have different name than class name.

Suppose test is a class, void show() is its public member function. Which of the following is correct call of

Show() function using Test pointer ptr?

Ptr->show()

Which of the following features of OOP is used to deal with only relevant details?

Abstraction

In C++ the subscript operator must be overloaded as a ___ of the class, with one parameter of ___ type.

Member function, int

Identify the abstract class from the given statement

“vehicle class is base class. Bus, Car and truck are derived classes”

Vehicle

In Object Oriented programming objects communicate with each other through ____

Messages

____ associates the objects of the exact three classes.

Ternary Association

An objects has attributes, operations and _____

Unique identity

Learning With A&I

In C++ which of the following keywords works only with constructors?

Explicit

Which of the following allows to reuse characteristics of more than one parent class?

Multiple Inheritance

How many objects are involved in the Binary association?

2

Which of the following features of OOP is used to deal with only relevant details?

Abstraction

The overloaded '-' operator for complex class will be called with reference to ___ in the following Statement

Complex C3 = C1 – C2

Complex

Static data member is declared __

Inside the class

Class is blue print of ___

Object

Which of the following is true about inline functions?

All of the given options

How many objects can be created once a class is declared?

As many as needed

Learning With A&I

Suppose you have following C++ statements

IntoldValue=10

intviewValue * ++ old/Value

What will be the value of old/Value and new/Value after executing above statement?

Old/Value=11, new/Value=11

In ___ base class can't always be replaced by the derived class.

Specialization

Which of the following will happen when a constant function tries to change the value of data members of the class?

Complex time error will occur

_____ is set of functions of an objects exposed to other objects.

Interface

How many objects are involved in the Ternary association?

3

Mermaid is an example of

Multiple inheritance

Which of the following is the correct syntax of declaring static variable 'count' of type int?

Static int count

Which of the following operators operate on one operand?

Unary Operators

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Object Data includes ___

Both static and attributes of an objects

In case when we define the function outside the class then we must use the keyword ___ to make function inline.

Inline

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