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CS304 QUIZ 1 SOLVED

1. A function call is resolved at run time in

a) Non virtual members function

b) Virtual member function

c) Both none-virtual and virtual member function

d) None of given

2. If the user does not specify the type of inheritance, then the default type of inheritance is _

a) Public inheritance

b) Private inheritance

c) Protected inheritance

d) None of given

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3. In case of private inheritance, private members of base class will be___in derived class?

- a) Private
- b) Public
- c) Protected
- d) **Hidden**

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4. Then int member i of base class is accessible in class,

a) derived 1 only

b) derived 2 only

c) both derived 1 derived 2

d) none of the given options

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

a) Private

b) Public

c) Protected

d) Hidden

6. By default assignment operator (=) performs,

a) Shallow copy

b) Deep copy

c) Both of these

d) None of these

7. In protected inheritance the public members of base class become _ in derived class.

a) Public

b) Private

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c) **Protected**

d) None of the given

8. Compiler can automatically generates the following constructor/s for a class,

a) Default constructor

b) Copy constructor

c) **Both of these**

d) None of these

9. Friend's functions of class are _ members of that class.

a) Public

b) **Private**

c) Protected

d) None of the given

10. Methodologies to the development of reusable software relate to__.

a) Structure programming

b) Procedural programming

c) **Generic programming**

d) None of the given

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11. Function overriding is done in context of,

- a) Single class
- b) Single derived class
- c) Single base class
- d) Derived and base classes**

12. Which of the following is not type of inheritance in c++?

- a) Public
- b) Protected
- c) Restricted**
- d) Private

13. 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.

- a) Base**
- b) Derived
- c) Virtual
- d) Implemented

14. Target class of a function call is determined t run time.

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- a) Instance
- b) Virtual**
- c) Operator
- d) None of the given

15. To make a pure virtual, we need to give _after() of this function.

- a) =0;**
- b) =1;
- c) Null;
- d) None of the given

16. If we have not given any constructor for the class, compiler generates which of the following constructors?

- a) Explicit Default Constructor
- b) Implicit Default Constructor**
- c) Explicit Parameterized Constructor
- d) Implicit Parameterized Constructor

17. In c++ by default access of classes is_____.

- a) Private**
- b) Protected
- c) Public

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d) None of the given

18. In public inheritance the public members of base class become__in derived class

a) Private

b) Protected

c) **Public**

d) None of the given

19. A class hierarchy

a) **Shows the same relationships as a organization chart**

b) Describe "has a "relationship.

c) Describe "is a kind of" relationship.

d) Shows the same relationships as a family tree.

20. In private Inheritance the public members of the base class become__in derived class

a) Public

b) **private**

c) Protected

d) None of the given option

21. In the line No.2, which constructor of student class will be

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- a) Default constructor of student class
- b) Copy constructor of student class**
- c) Both Default and Copy constructor of student class
- d) No constructor will be called

22. Which of the following is Not casting operator in c++ standard?

- a) Static-cast
- b) Var-cast**
- c) Dynamic-cast
- d) Reinterpret-cast

23. Which of the following type of inheritance is used to model "Implemented in terms of" relationship?

- a) Public
- b) Private**
- c) Protected
- d) Confidential

24. When we want to implement one class in terms of another class then we use,

- a) Public inheritance**
- b) Protected inheritance

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- c) Private inheritance
- d) None of these options

25. Public inheritance represents;

- a) **"IS A "relationship**
- b) "Has A" relationship
- c) "IS Special kind of" relationship
- d) None of these option

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

- a) Use base class default constructor
- b) **Generate base class copy constructor itself**
- c) Use base class assignment operator
- d) None of these

27. Child class can call constructor of its,

- a) **Direct base class**
- b) Indirect base class
- c) Both direct and indirect base classes
- d) None of these

28. We can have___type of member functions in a class.

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- a) Public
- b) Private
- c) Protected
- d) All of these options**

29. Compiler generated copy constructor performs_____

- a) Shallow copy**
- b) Deep copy
- c) Both Shallow and Deep copy
- d) None of these options

30. In c++ generic programming is done using_____

- a) Procedures
- b) Packages
- c) Templates**
- d) None of the given

31. Target class of afunction call is determined at run time.

- a) Instance
- b) Virtual**
- c) Operator
- d) None of the given

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32. Suppose person is a user defined class. In statement "Person*pPtr", static type of pPtr is ----.

- a) pPtr
- b) pointer**
- c) person
- d) None of the given

33. Which statement is true for concrete class?

- a) It cannot be inherit from an abstract class
- b) It can be instantiated**
- c) It cannot be instantiated
- d) None of given

34. In c++, compiler can generate which of the following operators `code,

- a) ==**
- b) =
- c) &
- d) &&

35. In specialization we can,

- a) Replace child class with its base class
- b) Replace base class with its child class**

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- c) Replace both child and base classes interchangeably
- d) None of the given option

36. In private inheritance derived class pointer can be assigned to base class pointer in,

- a) **Main function**
- b) In derived class member and friend class function
- c) In base class member and friend functions
- d) None of the given option

37. When we access private members of the class from outside the class using operator with its object pointer

- a) **->**
- b) .
- c) &
- d) None of above

38. Which of the following access specifier ensure that base class member is accessible in derived class and Not outside of this class

- a) Public
- b) Private
- c) **Protected**
- d) All of above

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39. Static casting is

- a) **C++ way of calling base class function from derived class**
- b) C way of calling base class function from derived class
- c) Both of these
- d) None of these

40. Suppose both derive and base classes have compilers generated copy constructors then derived class copy construct is

- a) Compiler generated default constructor
- b) **Compiler generated copy constructor**
- c) Both of these
- d) None of these

41. In case of protected inheritance, public members of the base class will be___in derived class

- a) Private
- b) Public
- c) **Protected**
- d) Hidden

42. Methodologies to the development of reusable software related to_____

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- a) Structured programming
- b) Procedural programming
- c) **Generic programming**
- d. None of the given

43. A child class can call constructor of the parent call through

a. Its constructor initialization list

- b) Its constructor body
- c) Both from its constructor initialization list or body
- d) Cannot call the constructor of its parent class

44. In case of dynamic memory allocation in or class we should use

- a) Default assignment operator
- b) User defined assignment operator**
- c) Default copy constructor
- d) None of these

45. Consider the code below. Class class1{

Protected:

Int I;

};

Class class2: private calls 1{

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};

- a) Public
- b) Protected
- c) Private**
- d) None of the given options

46. Consider the following two lines of code written for class student

```
Student subj1;
```

```
Student subj2(subj1)
```

In line 2 which constructor of student class will be called?

- a) Default constructor of student class
- b) Copy constructor of student class**
- c) Both default and copy constructor of student class
- d) No constructor will be called

47. Which of the following is /are casting operator(s) inc++?

- a) Static_cast
- b) Const_cast
- c) Dynamic_cast
- d) All of the given options**

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48. A template provides a convenient way to make a family of

a) Variables and data members

b) Functions and classes

c) Classes and exceptions

d) Programs and algorithms

49. Consider the code below class class1{

Private:

Void func1();

};

Class class2 : public class1{

};

Function func1 of class 1 is___in class2.

a) Public

b) Protected

c) Private

d) None of the given options

50. We can call base class assignment operator in derived class
user defined assignment operator

a) Implicitly

b) Explicitly

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c) **Using both of these options**

d) Using none of these options

51. Function func1 of class1 is__ in class2.

a) Public

b) **Protected**

c) Private

d) None of the given

52. The default inheritance mode is,

a) public inheritance

b) Protected inheritance

c) **Private inheritance**

d) None of the given

53. Consider the code below class class1{

public:

Void func1();

};

Class class2: protected class1{

};

Function func1 of class 1 is___in class2.

a) Public

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b) **Protected**

c) Private

d) None of the given options

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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() {/...
```

```
}
```

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 _____.

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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

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.

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Extension

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

& symbol

A child inherits characteristics from its _____.

Parent

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

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

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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?

They are also used to access private data of the object.

It can be used to set private data member of the class

It can be used to get private data member of the class

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

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

Which of the following statement is NOT true about static variable of a class?

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

Constructor

In OOP we can achieve reusability though _____

Inheritance

Generalization is implemented through

Inheritance

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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 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 a 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

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 in an expression.

Operator precedence

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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

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

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

In Object Oriented programming objects communicate with each other through _____

Messages

___ associates the objects of the exact three classes.

Ternary Association

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An objects has attributes, operations and _____

Unique identity

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

Suppose you have following C++ statements

```
int oldValue=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

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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

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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