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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

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 afunction 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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