

CS-304 Object Oriented Programming Update MCQS For Quiz-4 File Solve By Vu Topper RM

85% To 100% Marks



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Question No:1

(Marks:1)

Vu-Topper RM

Which of the following statement is true about partial specialization?

- A. None of the given
- B. Class template cannot have partial specialization
- C. Function templates cannot have partial specialization
- D. Both class templates and function template can have partial specialization.**

Question No:2

(Marks:1)

Vu-Topper RM

In C++ generic programming is done using _____

- A. Packages
- B. Templates**
- C. Procedures
- D. None of the given

Question No:3

(Marks:1)

Vu-Topper RM

When we want to have exactly identical operations on different data types, _____ are used.

- A. Function Overriding
- B. Function Template**
- C. Function Overloading
- D. None of the given options

Question No:4

(Marks:1)

Vu-Topper RM

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

- A. Object
- B. Data member
- C. Type parameter
- D. Member function**

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Question No:5

(Marks:1)

Vu-Topper RM

Which of the following may inherit from an ordinary class?

- A. Class template
- B. All of given option**
- C. Partial specialization
- D. Complete specialization

Question No:6

(Marks:1)

Vu-Topper RM

_____ may inherit from a complete specialization.

- A. All of the given**
- B. Ordinary class
- C. Partial specialization
- D. Complete specialization

Question No:7

(Marks:1)

Vu-Topper RM

In resolution order, compiler searches for _____ firstly.

- A. Generic template
- B. Ordinary function**
- C. Partial specialization
- D. Complete specialization

Question No:8

(Marks:1)

Vu-Topper RM

In case of template specialization, if compiler cannot find required complete specialization then it searches for some

- A. General template
- B. None of the given
- C. Complete template
- D. Partial specialization**

Question No:9

(Marks:1)

Vu-Topper RM

A class template _____

- A. Facilitates reuse of class**
- B. Does not support static members

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- C. Does not facilitate reuse of class
- D. Does not support generic methods

Question No:10 (Marks:1) **Vu-Topper RM**

Which of the following represents partial specialization?

- A. Template < int, char >
- B. Template < class T, Type t>
- C. Template<classT,classu,int>**
- D. Template< typename T, class W>

Question No:11 (Marks:1) **Vu-Topper RM**

A template provides a convenient way to make a family of

- A. Functions and classes**
- B. Classes and exceptions
- C. Programs and algorithms
- D. Variables and data members

Question No:12 (Marks:1) **Vu-Topper RM**

We can change behavior of a template using _____.

- A. Class Templates
- B. Function parameters
- C. Template parameters**
- D. none of the given options

Question No:13 (Marks:1) **Vu-Topper RM**

_____ class is a single class that provides functionality to operate on different types of data.

- A. Friend
- B. Ordinary
- C. Template**
- D. None of the give options

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Question No:14

(Marks:1)

Vu-Topper RM

Which of the following is correct code to instantiate the object of given template Vector class for int type?

- A. Vector int obj;
- B. Vector obj<>int;
- C. Vector <int> obj;**
- D. Vector obj <int>;

Question No:15

(Marks:1)

Vu-Topper RM

Which of the following is the correct syntax for passing two type arguments to a template?

- A. Template <type T.type U>
- B. Template < type T, type U>
- C. Template typename < T,U >
- D. Template < typename T, typename U>**

Question No:16

(Marks:1)

Vu-Topper RM

Which of the following represents complete specialization?

- A. Template < int, char >**
- B. Template < class T, float>
- C. Template< class , class W>
- D. Template <class T. class U.int>

Question No:17

(Marks:1)

Vu-Topper RM

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

- A. int I**
- B. Class T
- C. Class U
- D. All of the given option

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Question No:18

(Marks:1)

Vu-Topper RM

A template argument is preceded by the keyword _____.

- A. Class**
- B. Type*
- C. Vector
- D. Template

Question No:19

(Marks:1)

Vu-Topper RM

Which will be the Primary task or tasks of generic programming?

- A. All of the given**
- B. Build concrete models of the concept.
- C. Implement generic algorithms based on the concept.
- D. Categorize the abstractions in a domain into concept.

Question No:20

(Marks:1)

Vu-Topper RM

In resolution order of function templates, compiler searches for _____ in the end.

- A. Generic template**
- B. Ordinary function
- C. Partial specialization
- D. Complete specialization

Question No:21

(Marks:1)

Vu-Topper RM

In order to define a class template the first line of definition must be:

- A. Class<template t>
- B. Typename <template T>
- C. Template <type nameT >**
- D. Template Class <class name >

Question No:22

(Marks:1)

Vu-Topper RM

The parameters given in template definition other than those used for mentioning templates types are called _____.

- A. Type Parameters
- B. Non-Type parameters**

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- C. Default Type Parameters
- D. None of the given option

Question No:23

(Marks:1)

Vu-Topper RM

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

- A. `template class X { };`
- B. `typename <class T > class X { };`
- C. `class< typename T > class X { };`
- D. `template< typename T > class X { };`**

Question No:24

(Marks:1)

Vu-Topper RM

Which of the following is known as Dereference operator in C++?

- A. +
- B. ***
- C. &
- D. ::

Question No:25

(Marks:1)

Vu-Topper RM

Which of the following can be passed as type arguments to templates?

- A. Primitive type
- B. User defined types `
- C. Both Primitive type, User defined types**
- D. None of the given options

Question No:26

(Marks:1)

Vu-Topper RM

In resolution order, highest priority is given to _____ in template specialization.

- A. General template
- B. Partial specialization
- C. Complete specialization**
- D. None of the given options

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Question No:27

(Marks:1)

Vu-Topper RM

When we specialize a function template, it is called

- _____.
- A. Function overriding
 - B. Function overloading
 - C. Function template overriding
 - D. Function template overloading**

Question No:28

(Marks:1)

Vu-Topper RM

In specialization we can:

- A. Replace child class with its base class
- B. Replace base class with its child class**
- C. Replace both child and base classes
- D. interchangeably Base class can't always be replaced by the child class

Question No:29

(Marks:1)

Vu-Topper RM

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

- A. Public
- B. Private
- C. Protected
- D. Restricted**

Question No:30

(Marks:1)

Vu-Topper RM

Suppose both derive and base classes have compiler generated copy constructors then derived class copy constructor will call base class

- _____.
- A. Both of these options are correct
 - B. None of these options are correct
 - C. Compiler generated copy constructor**
 - D. Compiler generated default constructor

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Question No:31

(Marks:1)

Vu-Topper RM

Which of the following is/are casting operator(s) in C++?

- A. static_cast
- B. const_cast
- C. dynamic_cast

D. All of the given

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Question No:32

(Marks:1)

Vu-Topper RM

We can access private members of the class from outside the class using _____ operator with its object pointer.

- A. &**
- B. ,
- C. ->
- D. None of the given options

Question No:33

(Marks:1)

Vu-Topper RM

Consider the code below:

```
class class1 { private:  
void func1();};  
class class2 :  
public class1 { };
```

Function func1 of class1 is _____ in class2.

- A. Public
- B. Private**
- C. Protected
- D. None of the given

Question No:34

(Marks:1)

Vu-Topper RM

We can access public members of the class from outside the class using _____ operator with its object pointer.

- A. ->
- B. &**
- C. @
- D. .

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Question No:35

(Marks:1)

Vu-Topper RM

Compiler can automatically generate the following constructor/s for a class,

- A. Both of these
- B. None of these
- C. Copy constructor
- D. Default constructor**

Question No:36

(Marks:1)

Vu-Topper RM

Target class of a _____ function call is determined at run time.

- A. Virtual**
- B. Instance
- C. Operator
- D. None of given

Question No:37

(Marks:1)

Vu-Topper RM

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

- A. Public
- B. Private
- C. Protected
- D. All of the given**

Question No:38

(Marks:1)

Vu-Topper RM

Which of the following function can convert a class into an abstract class?

- A. Virtual function
- B. Abstract function
- C. Concrete function
- D. Pure virtual function**

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Question No:39

(Marks:1)

Vu-Topper RM

We can call base class assignment operator in derived class user defined assignment operator,

- A. Implicitly
- B. Explicitly
- C. Using both of these options**
- D. Using none of these options

Question No:40

(Marks:1)

Vu-Topper RM

A class hierarchy shows the same relationships as an organization chart.

- A. Describes “has a” relationships.
- B. Describes “is a kind of” relationships.**
- C. Shows the same relationships as a family tree.
- D. shows the same relationships as an organization chart.

Question No:41

(Marks:1)

Vu-Topper RM

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

- A. Main function**
- B. None of the these
- C. In base class member and friend functions
- D. In derived class member and friend functions

Question No:42

(Marks:1)

Vu-Topper RM

Polymorphism always works with _____.

- A. static objects
- B. actual objects
- C. Constant objects**
- D. pointer to class objects

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Question No:43

(Marks:1)

Vu-Topper RM

Two functions with same names, parameters and return type can exist in,

- A. Function overriding
- B. Operator overloading
- C. None of these options
- D. Function overloading**

Question No:44

(Marks:1)

Vu-Topper RM

Consider the following two lines of code written for a class Student, Student subj1; 2. Student subj2(subj1) 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

Question No:45

(Marks:1)

Vu-Topper RM

_____ binding means that target function for a call is selected at run time.

- A. Code
- B. Static
- C. Both
- D. Dynamic**

Question No:46

(Marks:1)

Vu-Topper RM

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

- A. Public**
- B. Private
- C. Protected
- D. All of the given

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Question No:47

(Marks:1)

Vu-Topper RM

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

Question No:48

(Marks:1)

Vu-Topper RM

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

A. Its constructor body

B. Its constructor initialization list

C. Can not call the constructor of its parent class

D. Both from its constructor initialization list or body

Question No:49

(Marks:1)

Vu-Topper RM

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

A. Public

B. Private

C. Protected

D. None of these options

Question No:50

(Marks:1)

Vu-Topper RM

Consider the code below, class c1 { }; class c2 : public c1 { }; class c3 : public c2 { }; Then c1 is,

A. Direct base class of c3

B. Direct base class of c2

C. Direct child class of c2

D. Direct child class of c3

Question No:51

(Marks:1)

Vu-Topper RM

In case of dynamic memory allocation in our class we should use

A. User defined copy constructor

B. User defined default constructor

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C. User defined assignment operator

Question No:52 (Marks:1)

Vu-Topper RM

Function overriding is done in context of,

- A. Single class
- B. Single base class
- C. Single derived class

D. Derived and base classes

Question No:53 (Marks:1)

Vu-Topper RM

Compiler generated copy constructor performs _____.

- A. Deep copy
- B. Shallow copy**
- C. None of these options
- D. Both Shallow and Deep copy

Question No:54 (Marks:1)

Vu-Topper RM

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

- A. None of these options is correct
- B. Use base class default constructor
- C. Use base class assignment operator
- D. Generate base class copy constructor itself**

Question No:55 (Marks:1)

Vu-Topper RM

Which statement will be true for concrete class?

- A. It can be instantiated**
- B. It cannot be instantiated
- C. None of the these
- D. It implements an virtual concept.

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Question No:56

(Marks:1)

Vu-Topper RM

Sender of the message does not need to know the exact class of receiver in_____.

- A. Abstraction
- B. Inheritance
- C. Polymorphism**
- D. none of the given

Question No:57

(Marks:1)

Vu-Topper RM

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

- A. Private
- B. Public
- C. Protected**
- D. None of these given

Question No:58

(Marks:1)

Vu-Topper RM

Child class can call constructor of its,

- A. Direct base class**
- B. Indirect base class
- C. Both
- D. None of the these

Question No:59

(Marks:1)

Vu-Topper RM

Which will be the primary task or task of generic programming?

- A. All of given**
- B. Build concrete models of the concept
- C. Implement generic algorithms based on the concept
- D. Categorize the abstractions in a domain into concepts

Question No:60

(Marks:1)

Vu-Topper RM

Methodologies to the development of reusable software relate to _____.

- A. None of the given
- B. Structure programming

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C. Generic programming

D. Procedural programming

Question No:1

(Marks:1)

Vu-Topper RM

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

A. =0;

B. =1;

C. Null;

D. None of the given

Question No:61

(Marks:1)

Vu-Topper RM

It is good practice to avoid _____ objects to treat polymorphically.

A. Array

B. Public

C. Private

D. Protected

Question No:62

(Marks:1)

Vu-Topper RM

Consider the code below.

```
Class class1 { Protected: Int I; }; Class class2: private calls 1 { };
```

A. Public

B. Private

C. Protected

D. None of these

Question No:63

(Marks:1)

Vu-Topper RM

```
Template<> class Vector{ void** p; //.... void*& operator[] ((int i); };
```

A. This specialization can then be used double type pointers.

B. This specialization should be used for Vectors of all type int types.

C. This specialization can then be used as the all-type implementation for one type classes.

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D. This specialization can then be used as the common implementation for all Vectors of pointers.

Question No:64

(Marks:1)

Vu-Topper RM

The Specialization pattern after the name says that this specialization is to be used for every ____.

- A. Data types
- B. Meta types
- C. Virtual types
- D. Pointer's type**

Question No:65

(Marks:1)

Vu-Topper RM

C++ dynamic binding and polymorphism will be achieved when member function will be ____.

- A. Public
- B. Private
- C. Virtual**
- D. None of these

Question No:66

(Marks:1)

Vu-Topper RM

Consider the code below, class class1 { protected: void func1(); }; class class2 : public class1 { }; Function func1 of class1 is ____ in class2,

- A. Public
- B. Private
- C. Protected**
- D. None of the given options

Question No:67

(Marks:1)

Vu-Topper RM

Consider the code below, class class1 { protected: int i; }; class class2 : protected class1 { }; Then int member i of class1 is ____ in class2,

- A. Public
- B. Private**
- C. Protected
- D. None of the given options

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Question No:68

(Marks:1)

Vu-Topper RM

Consider the code below , class class1 { private: void func1(); }; class class2 : private class1 { }; Function func1 of class1 is ____ in class2,

- A. Public
- B. Private
- C. Protected

D. None of the given options

Question No:69

(Marks:1)

Vu-Topper RM

Consider the following statements: 1) int iArray[5]; 2) int *pArr = iArray;

- A. None of given options
- B. Error in first statement

C. Error in second statement

D. These statements will compile successfully

Question No:70

(Marks:1)

Vu-Topper RM

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. Virtual
- C. Derived
- D. Implemented

Question No:71

(Marks:1)

Vu-Topper RM

A class template may inherit from another class template.

True

False

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Question No:72

(Marks:1)

Vu-Topper RM

An abstract class is useful when

A. No classes should be derived from it.

B. No objects should be instantiated from its.

C. There are multiple paths from one derived class to another.

Question No:73

(Marks:1)

Vu-Topper RM

Select correct line of code for composition relationship between

“Keyboard” class and “Keys” class

A. Class keyboard : private keys

B. Class keyboard { Keys type;};

C. Class keys{ KeyBoard type;};

D. Class keys: private KeyBoard

Question No:74

(Marks:1)

Vu-Topper RM

Select correct line of code for inheritance relationship between “Keys”

class and “SpecialKeys” class. “Keys” is parent class while

“SpecialKeys” is child class

A. Class Keys: public SpecialKeys

B. Class SpecialKeys:: public Keys

C. Class Keys:: public SpecialKeys

D. Class SpecialKeys: public Keys

Question No:75

(Marks:1)

Vu-Topper RM

User can make virtual table explicitly.

True

False

Question No:76

(Marks:1)

Vu-Topper RM

A function call is resolved at run-time in_____

A. Virtual member function

B. Both non-virtual member

C. Virtual member function

D. Non-virtual member function

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Question No:77

(Marks:1)

Vu-Topper RM

Consider the code below, class class1 { public: int i; }; class class2 : public class1 { }; Then int member i of class1 is ____ in class2,

A. Public

B. Private

C. Protected

D. None of the given options

Question No:78

(Marks:1)

Vu-Topper RM

A class can inherit from more than one class is called.

A. Single inheritance

B. Simple inheritance

C. Double inheritance

D. Multiple inheritances

Question No:79

(Marks:1)

Vu-Topper RM

The default inheritance mode is,

A. Public inheritance

B. Private inheritance

C. Protected inheritance

D. None of these options

Question No:80

(Marks:1)

Vu-Topper RM

It is illegal to make objects of one class members of another class

True

False

Question No:81

(Marks:1)

Vu-Topper RM

When we create objects, then space is allocated to:

A. Data member

B. None of given

C. Access specifier

D. Member function

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Question No:82

(Marks:1)

Vu-Topper RM

There is only one form of copy constructor.

True

False

Question No:83

(Marks:1)

Vu-Topper RM

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

A. Object

B. Abstraction

C. Information hiding

Question No:84

(Marks:1)

Vu-Topper RM

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

A. Static

B. Dynamic

C. Automatic

D. None of given

Question No:85

(Marks:1)

Vu-Topper RM

In C++, we declare a function virtual by preceding the function header with keyword "Inline"

True

False

Question No:86

(Marks:1)

Vu-Topper RM

Derived class can inherit from public base class as well as private and protected base classes

True

False

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Question No:87

(Marks:1)

Vu-Topper RM

A function template must have a parameter

True

False

Question No:88

(Marks:1)

Vu-Topper RM

Adding a derived class to a base class requires fundamental changes to the base class.

True

False

Question No:89

(Marks:1)

Vu-Topper RM

A Class or class template can have member _____ that are themselves templates.

A. Objects

B. Variable

C. Function

D. None of given

Question No:90

(Marks:1)

Vu-Topper RM

A class D can be derived from a class C, which is derived from a class B, which is derived from a class A.

True

False

Question No:91

(Marks:1)

Vu-Topper RM

The user must define the operation of the copy constructor.

True

False

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Question No:92

(Marks:1)

Vu-Topper RM

Template functions use _____ than ordinary functions.

A. Greater Memory

B. Lesser Memory

C. Equal Memory

Question No:93

(Marks:1)

Vu-Topper RM

Compiler performs _____ type checking to diagnose type errors,

A. Static

B. Bound

C. Dynamic

D. Unbound

Question No:94

(Marks:1)

Vu-Topper RM

Which of the following is/are advantage[s] of generic programming?

A. Writability

B. Reusability

C. All of given

D. Maintainability

Question No:95

(Marks:1)

Vu-Topper RM

Vectors contain contiguous elements stored as a[an] _____.

A. Array

B. Variable

C. Function

Question No:96

(Marks:1)

Vu-Topper RM

Algorithms can only be implemented using STL containers.

True

False

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Question No:97

(Marks:1)

Vu-Topper RM

Inheritance is a way to organize data.

- A. Pass arguments to objects of classes.
- B. Improve data-hiding and encapsulation.

C. Add features to existing classes without rewriting them.

Question No:98

(Marks:1)

Vu-Topper RM

We can use "this" pointer in the constructor in the body and even in the initialization list of any class if we are careful,

True

False

Question No:99

(Marks:1)

Vu-Topper RM

Default constructor is such constructor which either has no -----or if it has some parameters these have ----- values

- A. Null, Parameter
- B. None of the given
- C. Parameter, default**
- D. Parameter, temporary

Question No:100

(Marks:1)

Vu-Topper RM

Which of these are examples of error handling techniques?

- A. All of the given**
- B. Return the illegal
- C. Graceful Termination
- D. Abnormal Termination

Question No:101

(Marks:1)

Vu-Topper RM

Destructor can be overloaded

True

False

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Question No:102

(Marks:1)

Vu-Topper RM

Identify the correct way of declaring an object of user defined template class A for char type members?

A obj;

Question No:103

(Marks:1)

Vu-Topper RM

Which of the following causes run time binding?

A. Abstract class

B. Declaring object

C. None of the given

Question No:104

(Marks:1)

Vu-Topper RM

The type that is used to declare a reference or pointer is called its ---

A. Static type

B. Default type

C. Abstract type

D. Reference type

Question No:105

(Marks:1)

Vu-Topper RM

By default, assignment operator (=) performs,

A. Copy data

B. Deep copy

C. Shallow copy

Question No:106

(Marks:1)

Vu-Topper RM

Which of the following types of Inheritance is used to model

“Implemented in terms of” relationship?

Public

Private

Question No:107

(Marks:1)

Vu-Topper RM

Consider the code below, class c1 { }; class c2 : public c1 { }; class c3 : public c2 { }; Then c2 is,

Direct base class of c3

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Direct child class of c3

Question No:108

(Marks:1)

Vu-Topper RM

Static casting is?

C++ way of calling base class function from derived class

Explicit way of calling base class functions from derived class

Question No:109

(Marks:1)

Vu-Topper RM

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

Implicit Default Constructor

Question No:110

(Marks:1)

Vu-Topper RM

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

Private

Question No:111

(Marks:1)

Vu-Topper RM

Consider the code below,

```
class class1 { Private:
```

```
Void func1();
```

```
};
```

```
Class class2 :
```

```
public class1 { };
```

Function func1 of class 1 is in class2.

Private

Question No:112

(Marks:1)

Vu-Topper RM

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

Protected

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Question No:113 (Marks:1) **Vu-Topper RM**
A parent class can call constructor of its child class through,
Cannot call the constructor of its child class

Question No:114 (Marks:1) **Vu-Topper RM**
In c++, compiler can generate which of the following operators' code,
==

Question No:115 (Marks:1) **Vu-Topper RM**
Which of the following is TRUE,
Derived class pointer can be used as Base class pointer

Question No:116 (Marks:1) **Vu-Topper RM**
Public Inheritance represents,
"IS A" relationship

Question No:117 (Marks:1) **Vu-Topper RM**
Friend Functions of a class are _____ members of that class.
None of these

Question No:118 (Marks:1) **Vu-Topper RM**
A class with no pure virtual function is a _____ class.
Concrete

Question No:119 (Marks:1) **Vu-Topper RM**
If the user does not specify the type of inheritance, then the default type of inheritance is _____.
Private inheritance

Question No:120 (Marks:1) **Vu-Topper RM**
Which of the following is NOT casting operator in C++ standard?
var_cast

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Question No:121

(Marks:1)

Vu-Topper RM

Which of the following access specifier ensures that base class member is accessible in derived class of this base class and NOT outside of this class?

Protected

Suppose a template class "Test" has a static data member. How many copies of this static data member will be created when template class is instantiated by writing following line of C++ code? `Test<char> x,y,z;`

- A. zero
- B. one**
- C. two
- D. three

When we declare a template function as friend of any class, then which of the following specialization(s) of template function also becomes friend of the class granting friendship?

- A. Explicit
- B. Partial**
- C. Implicit
- D. All of the given options

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