

VU QUIZ REPORT

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Subject: CS304P

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Total Questions: 20

Question 1:

Virtual functions can be used in _____ ways.

- A. 0
- B. 8
- C. 6
- D. 2**

Selected Answer: D

Question 2:

When is a class template instantiated?

- A. When linked
- B. When declared
- C. At runtime
- D. At compile time**

Selected Answer: D

Question 3:

Which of the given is not a Sequence Container?

- A. List
- B. Vector
- C. Set**
- D. Deque

Selected Answer: C

Question 4:

Which of the following is an example of general template?

- A. template
- B. template
- C. template**
- D. template

Selected Answer: C

Question 5:

Which of the following is the correct syntax for creating a template class X friend of a template class Y?

- A. X;
- B. X friend;
- C. friend X;**
- D. friend X;

Selected Answer: C

Question 6:

Which of the following is the correct syntax for creating a function Test(T) friend of a template class?

- A. void Test(T) friend;
- B. void friend Test(T);
- C. void Test(T);
- D. friend void Test(T);**

Selected Answer: D

Question 7:

Which of the following is not the correct type of inheritance in C++?

- A. protected
- B. private
- C. secret**
- D. public

Selected Answer: C

Question 8:

What keyword is used to define a generic function template?

A. template

B. typename

C. generic

D. class

Selected Answer: A

Question 9:

Which of the following function is used to add an element to the end of a vector?

A. end()

B. insert()

C. push_back()

D. back()

Selected Answer: C

Question 10:

Which keyword is used to achieve polymorphism?

A. pure virtual

B. poly

C. virtual

D. polymorphism

Selected Answer: C

Question 11:

For the given class definition, which one is correct? `#include using namespace std; class A{ int x,y; public: int Add(int a,int b){return a+b;} int Add(int c){return c;} };`

A. Function Add is overridden

B. Function Add has an error

C. None of the given options

D. Function Add is overloaded

Selected Answer: D

Question 12:

What feature enables same-named template functions to exist?

- A. Polymorphism
- B. Specialization
- C. Function overloading**
- D. Inheritance

Selected Answer: C

Question 13:

How can you define a class template in C++?

- A. `template class MyClass { ... };`
- B. `template MyClass { ... };`
- C. `template class MyClass { ... };`**
- D. `template class MyClass { ... };`

Selected Answer: C

Question 14:

A class with pure virtual function is called _____ class.

- A. abstract**
- B. solid
- C. concrete
- D. normal

Selected Answer: A

Question 15:

Which of the following is true about friend functions in template classes?

- A. They must be defined inside the class.
- B. They can only access public members of the class.
- C. They are inherited by derived classes.
- D. They can access private and protected members of the class.**

Selected Answer: D

Question 16:

Function templates are preferred over overloading when

- A. They have different names
- B. They return different types
- C. Functions differ only by parameter types**
- D. They have different numbers of arguments

Selected Answer: C

Question 17:

Which of the following is the correct syntax for a function template in C++?

- A. template void func(T a);**
- B. template void func(T a);
- C. template func(T a);
- D. func(T a);

Selected Answer: A

Question 18:

class A { public: int Test(int x) {return x*x;} int Test(int x,int y) {return x*y;} }; class B : public A { public: int Test(int x) { return x*x*x;} }; In the above class, the method Test is _____.

- A. None of the given options
- B. Overridden**
- C. Overloaded
- D. Both

Selected Answer: B

Question 19:

What is the purpose of explicit specialization in templates?

- A. To simplify the template syntax
- B. To handle specific data types that the template cannot handle successfully**
- C. To improve runtime performance
- D. To avoid the use of templates

Selected Answer: B

Question 20:

What does a C++ template allow you to do?

- A. Define multiple main functions in a program
- B. Write functions or classes that can operate with different data types**
- C. None of the given
- D. Create new data types dynamically at runtime

Selected Answer: B
