

Cs304p

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Which of the following is partial specialization?

Choices:

☐ `template< class T, class U, class V >`

☐ `template< class T, class U>`

☐ `template< class T, float , int >`

☐ `template< int , float , int >`

TIME LEFT

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In the context of C++, which of the following is used to display data on the console?

Choices:

☐ Stream Insertion operator

☐ Binary Operators

☐ Stream Extraction operator

☐ Operator Overloading

TIME LEFT

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In the context of OOP, identify the following relationship.

Object 1

Object 2

Choices:

☐ Composition

☒ Aggregation

☐ Inheritance

☐ Abstraction

TIME LEFT

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Which problem arises due to multiple inheritance in object oriented programming?

Choices:

Diamond



Circle



Triangle



Loop

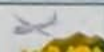


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In the context of C++, the order in which operators are evaluated first in an expression is called _____.

Choices:

☐ Precedence of an Operator

☐ Associativity

☒ Anity of an Operator

☐ Operator Overloading

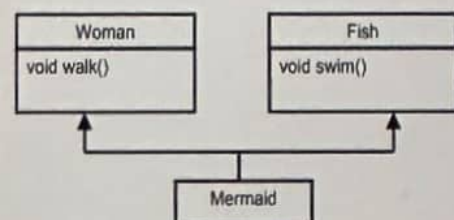
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The following class diagram represents the concept of _____.



Choices:

Simple Inheritance

☐

Multiple Inheritance

☐

Association

☒

Sub-typing

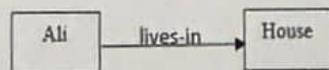
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"lives in" is a(an) _____.

Choices:

☐ Object

☐ Class

☐ Interaction

☐ Entity

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Question: 18 (Marks: 1)

Consider the following code, the base class member "grade" will be _____ in derived class Test.

```
class Exam {  
private:  
    char grade;  
};  
class Test : private Exam {  
private:  
    float score;  
};
```

Choices:

☐ hidden☐ protected☐ accessible☐ public

TIME LEFT

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Question: 14 (Marks: 1)

Consider the code below:

```
class shape
{
public: void area();
};

class square : protected shape
{
};
```

Function area() of class shape is _____ in class square.

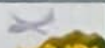
Choices:

☐ Private☐ Protected☐ Public☐ Hidden

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Consider the following program and choose the statement which cause the error.

```
class Woman
{
public:
    int GetAge();
};

class Fish
{
public:
    int GetAge();
};

class Mermaid: public Woman, public Fish
{
};

int main()
{
    Mermaid obj;
    obj.GetAge();
}
```

Choices:

- ☐ int GetAge();
- ☐ class Mermaid: public Woman, public Fish
- ☐ Mermaid obj;
- ☐ obj.GetAge();

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

Choices:

☐ `template< class T > class Xyz { ... };`

☐ `class Xyz { ... };template< typename T >`

☐ `template< class T > void funName( ...);`

☐ `template< Vector T > class Xyz { ... };`

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Consider the following code

```
class Shape()  
{  
    int area(int x);  
    int area(int x, int y);  
    void display();  
    void circumference();  
    void draw();  
};
```

Which of the following function is overloaded function?

Choices:

☐ int area(int x);

☐ void display();

☐ void circumference();

☐ void draw();

TIME LEFT

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Which of the following option is correct about stack unwinding?

Choices:

☐ All the local objects of an executing block are destroyed when an exception is thrown

☐ Dynamically allocated memory is destroyed automatically

☐ If catch handler catches the exception the function terminate is called

☐ All of the given option

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Analyze the given code carefully and choose the issue in code

```
int function1(){  
FILE *fileptr = fopen("filename.txt", "w");  
...  
throw exception();  
...  
fclose(fileptr);  
return 0;  
}
```

Choices:

☐ file will close

☐ file can never be opened.

☐ fclose will be called.

☐ fclose will be ignored

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Generic Algorithms made our code _____ of underlying data structure.

Choices:

specific



constant



dependent



independent

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Which of the following is not the type of STL Containers?

Choices:

☐ Sequence Containers

☐ Associative Containers

☐ Container Adapters

☐ Iterator Containers

TIME LEFT

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Deque behaves like a line such that we can add elements _____ of it.

Choices:

☐ only at specific index

☐ only on the left side

☐ only on the right side

☐ on both sides

Question: 7 (Marks: 1)

Each instantiation of template class _____ copy of static data members.

Attempted Q

Choices:

☐ does not create his own

☐ create his own

☐ has its own

☐ does not has its own

TIME LEFT

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The given code is an example of _____

```
Vector<int> intVec;
```

Choices:

☐ character Vector class

☐ simple Vector class

☐ parameterized Vector class

☐ Number Vector class

Question: 5 (Marks: 1)

What will be the output of the following program?

```
#include<iostream>
using namespace std;
class Base
{
public:
~Base()
{
cout << "Base Destructor\n";
};
};
class Derived:public Base
{
public:
~Derived()
{
cout<< "Derived Destructor\n";
};
};
int main()
{
Base* b = new Derived;
delete b;
```

Choices:

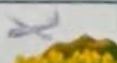
- ☐ Base Destructor
- ☐ Derived Destructor
- ☐ Base Destructor
- ☐ Derived Destructor

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Which of the following is the correct way for making a class abstract in C++?

Choices:

☐ class Abc{

☐ class Abc{

☐ class Abc{

☐ class Abc

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A class Parrot is derived from class Pet. How many error(s) are there in the code below?

```
class Pet{};
```

```
class Parrot : Pet { string color; };
```

Choices:

☐ There is no Error in code.

☐ Inheritance type is missing.

☐ Semi colon is missing.

☐ Parent class and inheritance type both are missing.

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Consider the following program and choose the best option.

```
#include <iostream>
```

```
using namespace std;
```

```
int main(){
```

```
    Complex c1;
```

```
    cout << c1;
```

```
    cout << c1 << 2;
```

```
}
```

Choices:

☐ Code will be compiled and run successfully

☐ Code will display the c1 & c2

☐ Error in code

☐ Code will display 2

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Object Oriented Programming (Practical) (CS304P)

Question: 1 (Marks: 1)

What will be the output of the following program?

```
#include <iostream>
using namespace std;
class Test {
    private: static int x;
    public:
        static void staticFun() {
            ++x;
            cout<< x << " ";
        }
};
int Test::x =20;

int main() {
    Test test;
    test.staticFun();
    test.staticFun();
    system("pause");
    return 0;
}
```

Choices:

☐ 20 22☐ 20 21☐ 21 22☐ 22 23

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