



COMI Question Completion Status:

Part A: Multiple Choice Questions Take Test: Trial Final Examination: Part A

Take Test: Trial Final Examination: Part A

Test Information

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.

Question 1 of 15

Question 1

2 points

Saved

Predict the output of following program assuming it uses the standard namespace:

```
int fun(int=1, int = 2);

int main() {
    cout << fun(5);
    return 0;
}
```

```
int fun(int x, int y) { return (x+y); }
```

 5 3 6 7

Moving to another question will save this response.

Question 1 of 15

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions Take Test: Trial Final Examination: Part A

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 Question 2 of 15 **Question 2**

2 points

Saved

What happens if a pointer is deleted twice in a program as shown in the following C++ statements?

```
int *ptr = new int;  
delete ptr;  
delete ptr;
```

- memory leaking
- The program runs with no indication of errors.
- compile error
- execute error



Moving to another question will save this response.

 Question 2 of 15



COMI Question Completion Status:

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Moving to another question will save this response.



Question 3 of 15



Question 3

2 points

Save Answer

Predict the output of following program assuming it uses the standard namespace:

```
int fun(int x, int y = 1, int z = 1) {  
    return (x + y + z);  
}  
  
int main() {  
    cout << fun(10);  
    return 0;  
}
```

 Compiler error 12 10 11

Moving to another question will save this response.



Question 3 of 15



**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

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Question 4 of 15

Question 4

2 points

Saved

Which of the following is correct syntax to declare class B to be a public base class for derived class D in C++?

- class B : public class D {
 /*...*/
};
- class D : public class B {
 /*...*/
};
- class D : public B {
 /*...*/
};
- public base class B : class D {
 /*...*/
};



Moving to another question will save this response.

Question 4 of 15

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions Take Test: Trial Final Examination: Part A

Take Test: Trial Final Examination: Part A**Test Information**

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Instructions

Multiple Attempts Not allowed. This test can only be taken once.

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Moving to another question will save this response.

 Question 5 of 15 **Question 5****2 points**[Save Answer](#)

What is the output when you try to run this C++ program assuming the standard header files are provided?

```
int &fun() {  
    static int x = 10;  
    return x;  
}
```

```
int main() {  
    fun() = 30;  
    cout << fun();  
    return 0;  
}
```

- 10
- Compiler Error: Function cannot be used as lvalue
- 30
- 40



Moving to another question will save this response.

 Question 5 of 15

❖ Question Completion Status:

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

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 Question 6 of 15 **Question 6**

2 points

Saved

How do `struct` and `class` in C++ differ?

- `struct` by default hides every member whereas `class` does not.
- In `struct`, data members and member functions are public by default whereas, in `class`, they are private by default.
- In `struct`, data members and member functions are private by default whereas, in `class`, they are public by default.
- `struct` cannot have private members whereas `class` can have.



Moving to another question will save this response.

 Question 6 of 15

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

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Question 7 of 15

**Question 7**

2 points

Save Answer

What will be the output of the following C++ code when using namespace std?

```
int main() {
    int x = 10;
    int& ref = x;
    ref = 20;
    cout << "x = " << x << endl ;
    x = 30;
    cout << "ref = " << ref << endl;
    return 0;
}
```

- x = 20
ref = 30
- x = 20
ref = 20
- x = 30
ref = 30
- x = 10
ref = 30



Moving to another question will save this response.



Question 7 of 15



**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions Take Test: Trial Final Examination: Part A

Take Test: Trial Final Examination: Part A**▼ Question Completion Status:****Test Information**

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 Question 8 of 15 **Question 8****2 points**[Save Answer](#)

Constructors have ____ return type.

- void
- char
- int
- no



Moving to another question will save this response.

 Question 8 of 15

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions Take Test: Trial Final Examination: Part A

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Question 9 of 15

**Question 9**

2 points

Save Answer

When is a copy constructor of a class called?

- An object of that class is passed to a function by value.
- A class object is created and initialized by another object of the same class.
- An object of that class is assigned to an object variable of the same class.
- All of the above



Moving to another question will save this response.



Question 9 of 15



**COMP2014 (Spring 2021) Object Oriented Programming**

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Moving to another question will save this response.

Question 10 of 15 < > >>

Question 10

2 points

Save Answer

What does polymorphism in OOP mean?

- Concept of keeping things in different modules/files
- Concept of allowing overriding of functions and dynamic binding
- Concept of wrapping things into a single unit
- Concept of hiding data



Moving to another question will save this response.

Question 10 of 15 < > >>

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions Take Test: Trial Final Examination: Part A

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Moving to another question will save this response.

Question 11 of 15

Question 11

2 points

Saved

What is the error in the following piece of code?

```
#include<iostream>
using namespace std;

int main() {
    ifstream inFS;
    int numBooks;
    int numStudents = 40;
    inFS >> numBooks;
    cout << "Books per student: ";
    cout << numBooks / numStudents;
    return 0;
}
```

- The file stream has not been properly opened.
- The data type of numBooks does not match the data type of inFS.
- The >> operator cannot be used here.
- No error



Moving to another question will save this response.

Question 11 of 15

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions Take Test: Trial Final Examination: Part A

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Instructions

Multiple Attempts Not allowed. This test can only be taken once.

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Moving to another question will save this response.

Question 12 of 15

Question 12

2 points

Saved

What is the output of this C++ program assuming that it uses the standard namespace?

```
void square(int *x) {
    *x = (*x)++ * (*x);
}

void square(int *x, int *y) {
    *x = (*x) * --(*y);
}

int main() {
    int number = 30;
    square(&number, &number);
    cout << number;
    return 0;
}
```

- 920
- 870
- 910
- 900



Moving to another question will save this response.



Question 12 of 15



▼ Question Completion Status:

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions Take Test: Trial Final Examination: Part A

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Take Test: Trial Final Examination: Part A

Test Information

Description

Instructions

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Moving to another question will save this response.

Question 13 of 15 < < > >>

Question 13

2 points

Saving Answer

A member of a structure or of a class is accessed using the

- ampersand operator
- dot operator
- indexing operator
- comma operator



Moving to another question will save this response.

Question 13 of 15 < < > >>

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions Take Test: Trial Final Examination: Part A

Take Test: Trial Final Examination: Part A**Test Information**

Description

❖ Question Completion Status:

Multiple Attempts NOT allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.

Question 14 of 15 A set of small navigation icons for navigating between questions, including arrows for previous and next, and double arrows for first and last.

Question 14

2 points

Saved

Which members of a base case are inherited but are not accessible in its derived classes?

- protected
- both private and protected
- public
- private



Moving to another question will save this response.

Question 14 of 15 A set of small navigation icons for navigating between questions, including arrows for previous and next, and double arrows for first and last.



COMP2014 (Spring 2021) Object Oriented Programming

Final Exam (50%) ...

Part A: Multiple Choice Questions Take Test: Trial Final Examination: Part A

▼ Question Completion Status:

Take Test: Trial Final Examination: Part A

Test Information

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.

Save and Submit

 Click **Submit** to complete this assessment.

Question 15 of 15

Question 15

2 points

Save Answer

What does the following code output?

```
#include <iostream>
using namespace std;

int main() {
    char userLetter;
    char* letterPointer;
    letterPointer = &userLetter;
    userLetter = 'A';
    *letterPointer = 'C';
    cout << userLetter;
    return 0;
}
```

- a random value
- C
- a value that refers to an address
- A

 **CLICK SUBMIT** to complete this assessment.

  Question 15 of 15

▼ Question Completion Status:

**COMI** ❁ Question Completion Status:

Part A: Multiple Choice Questions (50 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Test Information

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.

 Moving to another question will save this response.Question 1 of 30  **Question 1**

1 points

Saved

Which of the following is FALSE about references in C++?

- References cannot be NULL
- A reference must be initialized when declared
- Once a reference is created, it cannot be later made to reference another object; it cannot be reset.
- References cannot refer to constant value

 Moving to another question will save this response.Question 1 of 30  

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

 Question Completion Status:**Take Test: Final Examination Part A (30%): Multiple Choice Questions****Test Information**

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.

 Question 2 of 30 **Question 2**

1 points

Saved

Predict the output of the following program assuming it uses the standard namespace:

```
class Base {  
public:  
    virtual void show() { cout<<" In Base\n"; }  
};  
  
class Derived: public Base {  
public:  
    void show() { cout<<"In Derived\n"; }  
};  
  
int main(void) {  
    Base *bp = new Derived;  
    bp->Base::show();  
    return 0;  
}
```

- In Derived
- In Base
- Compiler Error
- Runtime Error

 Moving to another question will save this response.

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▼ Question Completion Status:

**COMI** ❁ Question Completion Status:

Part A: Multiple Choice Questions (50 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Test Information

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

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Moving to another question will save this response.

 Question 3 of 30 **Question 3**

1 points

Saved

What is the output of this C++ program assuming that it uses the standard namespace?

```
void square(int *x) {
    *x = (*x)++ * (*x);
}

void square(int *x, int *y) {
    *x = (*x) * --(*y);
}

int main() {
    int number = 30;
    square(&number, &number);
    cout << number;
    return 0;
}
```

 870 900 920 910

 Moving to another question will save this response.

Question 3 of 30

❖ Question Completion Status:



Question Completion Status:

... - - -

Student Support

Contact Support

COMP2014 (Spring 2021) Object Oriented Programming

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

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Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

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Moving to another question will save this response.



Question 4 of 30

**Question 4**

1 points

Saved

Predict the output of the following program assuming it uses the standard namespace:

```
class Test {  
    static int x;  
public:  
    Test() {  
        x++;  
    }  
    static int getX() {  
        return x;  
    }  
};
```

```
int Test::x = 5;
```

```
int main() {  
    cout << Test::getX();  
    return 0;  
}
```

 0 5 garbage value Compiler error

 Moving to another question will save this response.

❖ Question Completion Status:

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

▼ Question Completion Status:

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

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Moving to another question will save this response.



Question 5 of 30

**Question 5**

1 points

Saved

What type of parameters in a function is called formal parameters in C++?

- Parameters which are used in the definition of the function
- Parameters with which functions are called
- Variables that are never used in the function
- Variables in the definition of a function



Moving to another question will save this response.



Question 5 of 30



**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

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Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

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Moving to another question will save this response.



Question 6 of 30

**Question 6**

1 points

Save Answer

How are run-time polymorphisms implemented in C++?

- By using data hiding and references
- By using abstraction and encapsulation
- By using function and class templates
- By using inheritance and virtual functions



Moving to another question will save this response.



Question 6 of 30



**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Question Completion Status:****Test Information**

Description

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Force Completion This test can be saved and resumed later.

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Moving to another question will save this response.

 Question 7 of 30 **Question 7**

1 points

Saved

Predict the output of the following program assuming it uses the standard namespace:

```
class Player {  
private:  
    int id;  
    static int next_id;  
public:  
    int getID() { return id; }  
    Player() { id = next_id++; }  
};  
  
int Player::next_id = 1;  
  
int main()  
{  
    Player p1;  
    Player p2;  
    Player p3;  
  
    cout << p1.getID() << " ";  
    cout << p2.getID() << " ";  
    cout << p3.getID();  
  
    return 0;  
}
```

 1 2 3 1 1 1

- 3 3 3
- Compiler error

 Moving to another question will save this response.

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❖ Question Completion Status:

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

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Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

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Moving to another question will save this response.

◀◀ Question 8 of 30 ▶▶

Question 8

1 points

Saved

C++ is _____

- purely procedural programming language
- a combination of procedural and object oriented programming language
- purely functional programming language
- purely object-oriented programming language



Moving to another question will save this response.

◀◀ Question 8 of 30 ▶▶

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take **Take Test: Final Examination Part A (30%): Multiple Choice Questions****Test Information**

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

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Moving to another question will save this response.

 Question 9 of 30 
Question 9

1 points

Saved

Given the following class definition,

```
class A {
private:
    int x;
public:
    A() {x = 0;}
    friend void show();
};
```

```
class B: public A {
public:
    B() : y(0) {}
private:
    int y;
};
```

what is the problem of the following definition of show() function?

```
void show() {
    A a;
    B b;
    cout << "The default value of A::x = " << a.x << " ";
    cout << "The default value of B::y = " << b.y;
}
```

- "b.y" is incorrect because y is a private member of class B.
 show() is not a member function of Class A.

- "a.x" is incorrect because x is a private member of class A.
 "B b;" is incorrect because class B has not initialise variable x of class A.

 Moving to another question will save this response.

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❖ Question Completion Status:

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

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Question 10 of 30

**Question 10**

1 points

Save Answer

Predict the output of the following C++ program

```
#include <iostream>
using namespace std;

int main() {
    const char* p = "12345";
    const char **q = &p;
    *q = "abcde";
    const char *s = ++p;
    p = "XYZWVU";
    cout << *++s;
    return 0;
}
```

 Compiler Error c b Garbage value

Moving to another question will save this response.



Question 10 of 30



❖ Question Completion Status:

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

[Take Test: Final Examination Part A \(30%\): Multiple Choice Questions](#)**Question Completion Status:****Take Test: Final Examination Part A (30%): Multiple Choice Questions****Test Information**

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Moving to another question will save this response.



Question 11 of 30

**Question 11****1 points**

Saved

Which of the following operators are overloaded by default for every user defined class even if the user has not written?

1) Comparison Operator (==)

2) Assignment Operator (=)

 Neither 1 only Both 1 and 2 2 only

Moving to another question will save this response.



Question 11 of 30



**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

▼ Question Completion Status:

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

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Moving to another question will save this response.



Question 12 of 30

**Question 12**

1 points

Save Answer

If X is the name of a class, what is the correct way to declare the copy constructor of X?

- X(const X& arg)
- X(X* arg)
- X(X arg)
- X(const X* arg)



Moving to another question will save this response.



Question 12 of 30



COMP2014 (Spring 2021) Object Oriented Programming

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

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Moving to another question will save this response.



Question 13 of 30

**Question 13**

1 points

Saved

Predict the output of the following program assuming it uses the standard namespace:

```
#include <iostream>

class Test2 {
    int y;
};

class Test {
    int x;
    Test2 t2;
public:
    operator Test2() {
        return t2;
    }
    operator int() {
        return x;
    }
};

void fun(int x) {
    cout << "fun(int) called";
}

void fun(Test2 t) {
    cout << "fun(Test 2) called";
}

int main()
```

❖ Question Completion Status:

```
    return 0;  
}
```

- fun(Test 2) called
- fun(Test) called
- Compiler Error: call to 'fun' is ambiguous
- fun(int) called

 Moving to another question will save this response.

« « Question 13 of 30 » »

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

 Question Completion Status:**Take Test: Final Examination Part A (30%): Multiple Choice Questions****Test Information**

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Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.

 Question 14 of 30 **Question 14****1 points**

Save Answer

What is the output of this program assuming the standard header files and namespace have been added?

```
int main() {  
    int a = 5, b = 10, c = 15;  
    int *arr[] = {&a, &b, &c};  
    cout << arr[1];  
    return 0;  
}
```

- 5
- 15
- 10
- a hexadecimal number representing the address of a memory cell



Moving to another question will save this response.

 Question 14 of 30 

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.



Question 15 of 30

**Question 15****1 points**

Saved

Given the declaration of two classes:

```
class A {  
public:  
    virtual void fun();  
};
```

```
class B {  
public:  
    void fun();  
};
```

- fun() in class B overloads fun() in class A.
- fun() in class A overrides fun() in class B.
- fun() in class B is not related to fun() in class A.
- fun() in class B overrides fun() in class A.

Question Completion Status:

COMI ❁ Question Completion Status:

Part A: Multiple Choice Questions (50 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Test Information

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.



Question 16 of 30

**Question 16**

1 points

Saved

Which of the following is true about pure virtual functions?

- 1) Their implementation is not provided in a class where they are declared.
- 2) If a class has a pure virtual function, then the class becomes abstract class and an instance of this class cannot be created.

 Only 2 Only 1 Neither Both 1 and 2

Moving to another question will save this response.



Question 16 of 30



❖ Question Completion Status:

COMI ✎ Question Completion Status:

Part A: Multiple Choice Questions (50 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Test Information

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.



Question 17 of 30

**1 points**

Save Answer

Question 17

Given the following function template,

```
template <class T>
T fun(T &a, T &b) {
    return (a > b)? a : b;
}
```

What is the outcome of the following function call?

```
int a = 10, b = 20;
cout << fun<int> (a, b);
```

 20 false true 10

 Moving to another question will save this response.

 Question 17 of 30 

❖ Question Completion Status:

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Question Completion Status:

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.



Question 18 of 30

**1 points**

Save Answer

Question 18

Which of the followings is/are automatically added to every class if we do not write our own?

- copy constructor
- assignment operator
- a constructor without any parameter
- all of the above



Moving to another question will save this response.



Question 18 of 30



COMP2014 (Spring 2021) Object Oriented Programming

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.



Question 19 of 30

**1 points**

Saved

Question 19

Predict the output of the following program assuming the standard namespace is used:

```
class Test {  
public:  
    Test() {cout << " Constructor Called.";}  
  
    void fun() {  
        static Test t1;  
    }  
    int main() {  
        cout << " Before fun() called.";  
        fun();  
        fun();  
        cout << " After fun() called.";  
        return 0;  
    }  
}
```

- Constructor Called. Constructor Called. After fun() called. Before fun() called.
- Before fun() called. Constructor Called. After fun() called.
- Before fun() called. Constructor Called. Constructor Called. After fun() called.
- Constructor Called. Before fun() called. After fun() called.

Question Completion Status:

 Moving to another question will save this response.

  Question **19** of 30  

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Question Completion Status:

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.



Question 20 of 30

**Question 20**

1 points

Saved

*ptr++ is equivalent to:

- *ptr
- ptr++
- None of the above
- ++*ptr



Moving to another question will save this response.



Question 20 of 30



COMI ❁ Question Completion Status:

Part A: Multiple Choice Questions (50 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Test Information

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.



Question 21 of 30

**Question 21**

1 points

Save Answer

What will happen in this code?

```
int a = 100, b = 200;
int *p = &a, *q = &b;
```

```
p = q;
```

 q now points to a. The value of a becomes 200. p now points to b. The value of b becomes 100.

Moving to another question will save this response.



Question 21 of 30



**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

 Question Completion Status:**Take Test: Final Examination Part A (30%): Multiple Choice Questions****Test Information**

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.



Question 22 of 30

**1 points**

Save Answer

Question 22

Given the following function definitions,

```
void DatePrint(int day, int month, int year) {  
    cout << "1" << endl;  
}  
  
void DatePrint(int day, char month, int year) {  
    cout << "2" << endl;  
}  
void DatePrint(int month, int day) {  
    cout << "3" << endl;  
}
```

for function call DatePrint(30, "Oct", 2021), which number would be printed?

 2 No function definition can be bound to the function call. 1 3

Moving to another question will save this response.



Question 22 of 30



❖ Question Completion Status:

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Question Completion Status:

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.



Question 23 of 30

**Question 23**

1 points

Saved

Which of the following functions must use reference?

- Assignment operator function
- Copy Constructor
- Destructor
- Parameterized constructor



Moving to another question will save this response.



Question 23 of 30



**COMI** Question Completion Status:

Part A: Multiple Choice Questions (50 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Test Information

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.

Question 24 of 30

Question 24**1 points**

Saved

Predict the output of the following program assuming it uses the standard namespace:

```
int main() {  
    cout << fun(5);  
    return 0;  
}
```

```
int fun(int x, int y) {  
    return (x + y);  
}
```

 6 5 7 3

Moving to another question will save this response.

Question 24 of 30

Question Completion Status:

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.



Question 25 of 30

**Question 25****1 points**

Save Answer

Predict the output of the following program assuming it uses the standard namespace:

```
template <class T>
class Test {
private:
    T val;
public:
    static int count;
    Test() { count++; }
};

template<class T>
int Test<T>::count = 0;

int main() {
    Test<int> a;
    Test<int> b;
    Test<double> c;
    cout << Test<int>::count << endl;
    cout << Test<double>::count << endl;
    return 0;
}
 2
 1
 0
 1
 1
 0
```

Question Completion Status:

 Moving to another question will save this response.

  Question **25** of **30**  

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.



Question 26 of 30

**Question 26**

1 points

Saved

What is the output when you try to run this C++ program assuming the standard header files are provided?

```
int fun() {  
    int x = 10;  
    return x;  
}  
  
int main() {  
    fun() = 30;  
    cout << fun();  
    return 0;  
}
```

 30 Compiler Error: Function cannot be used as lvalue 10 10

❖ Question Completion Status:

 Moving to another question will save this response.

  Question **26** of **30**  

**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

Description

▼ Question Completion Status:

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.



Question 27 of 30

**Question 27**

1 points

Save Answer

Which of the following provides a programmer with the facility of using object of a class inside other classes?

- Encapsulation
- Composition
- Inheritance
- Abstraction



Moving to another question will save this response.



Question 27 of 30



**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Question Completion Status:**

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.



Question 28 of 30

**Question 28**

1 points

Save Answer

Constructors have ____ return type.

- no
- void
- char
- int



Moving to another question will save this response.



Question 28 of 30



**COMP2014 (Spring 2021) Object Oriented Programming**

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.



Moving to another question will save this response.

Question 29 of 30

Question 29

1 points

Saved

Predict the output of the following program assuming it uses the standard namespace:

```
#include<iostream>

class Point {
private:
    int x, y;
public:
    Point() :
        Point(0), y(0) {
    }
    Point& operator()(int dx, int dy);
    void show() {
        cout << "x = " << x << ", y = " << y;
    }
};

Point& Point::operator()(int dx, int dy) {
    x = dx;
    y = dy;
    return *this;
}

int main() {
    Point pt;
    pt(3, 2);
    pt.show();
    return 0;
}
```

Question Completion Status:

- x = 2, y = 2
- x = 3, y = 2
- x = 2, y = 3



Moving to another question will save this response.



Question **29** of **30**





▼ Question Completion Status:

... - - -

Student Support

Contact Support

COMP2014 (Spring 2021) Object Oriented Programming

Final Exam (50%) ...

Part A: Multiple Choice Questions (30 marks)

Take Test: Final Examination Part A (30%): Multiple Choice Questions

Take Test: Final Examination Part A (30%): Multiple Choice Questions**Test Information**

Description

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.

Save and Submit

 Click **Submit** to complete this assessment. Question **30 of 30****Question 30****1 points**

Save Answer

When is a copy constructor of a class called?

- An object of that class is passed to a function by value.
- A class object is created and initialized by another object of the same class.
- An object of that class is assigned to an object variable of the same class.
- All of the above

 Click **Submit** to complete this assessment. Question **30 of 30**

Save and Submit