

False

5. virtual inheritance let the child insure that there is only one instance of the parent class **(1 Point)** 

 True False

6. We must overload the = operator when implementing the copy constructor **(1 Point)** 

 True False

7. cout is a member function of the built-in ostream class where the operator<< is overloaded **(1 Point)** 

 True False

8. What will be the output for the following code:

```
class Base
{
protected:
    float x;
public:
    Base(float m)
    {x = m;}
    virtual void PrintTotal()
    {cout<< "Total is: "<<x;}
};
```

```
class Derived : public Base
{
protected:
    float y;
public:
    Derived(float a, float b) : Base(a)
    {y = b;}
    void PrintTotal()
    {cout<<"Total is: "<<x + y;}
    void ShowValues()
    {cout<<"x= " <<x<<" and y = " <<y;}
};
void main()
{
    Derived myObj(7, 2);
    Base * ptr;
    ptr = &myObj;
    ptr->ShowValues();
}
```

(2 Points) 

- a) Total is: 2.
- b) Total is: 7.
- c) Total is: 9.
- d) x = 7 and y = 2.
- e) None of the above

9. Consider the following code:

```
class Base
{
protected:
    float x, y;
public:
    Base()
    {x = 2 ; y = 1 ; }
    Base(float a, float b)
    {x = a; y = b;}
```

```
void SetX(float a) {x = a;}
void SetY(float b) {y = b;}
virtual void printSum()=0;
};

class Derived : public Base
{
protected:
    float z;
public:
    Derived(float a, float b, float c) : Base()
    {z = c;}
    void SetZ(float c) {z = c;}
    void showSum()
    {cout << "Sum of all variables is: "<<x + y +z;}
};

void main()
{
    Base *myPtr;
    Derived myDerived(15, 5,4);
    myDerived.showSum();
}
```

The above code:

(2 Points) 

24

7

Compilation Error

None of the above

10. consider the following code:

```
class Base
{
public:
    int x;
    Base(int y)
    {
        x=y;
        ++x;
```

```
    }
};

class child : public Base
{
public:
    child(int c):Base(c)
    { x=1; }
    void print()
    { cout<<"x="<<x; }
};

void main()
{
    child c(1);
    c.print();
}
```

What is the output of the previous program?

(2 Points) 

x=3

x=1

x=4

x=2

11. Consider the following class:

```
class Test
{
public:
    int x;
    Test(){x=0;}
    Test(int y)
    { x=y++; }
    Test(Test &r)
    { x=++r.x; }
    void print ()
    { cout<<x; }
};

void main()
{
```

```
Test t1();
t.print();
Test x(t);
x.print();
t.print();
}
```

What is the output of the previous program?

(2 Points) 

121

122

222

233

12. Consider the following class:

```
class AA
{
protected:
    int a;
public:
    AA(int m) {a = m;}
};

class BB : public AA
{
protected:
    int b;
public:
    BB(int m, int n) : AA(n)
    {b = m;}
};

class CC : public AA
{
protected:
    int c;
public:
    CC(int m, int n) : AA(n)
    {c = m;}
```

```
};  
class XX : public BB, public CC  
{  
    public:  
        XX(int m, int n, int p) : BB(m,n), CC(n, p)  
        {}  
};  
XX myObject(3, 4, 5);
```

The previous code what will be the values of a, b, c:

(2 Points) 

- a = 4, b = 3, c =4
- a = 5, b = 3, c =4
- Undetermined Values
- Compliation Error

13. class MyClass

```
{           int x, y;  
           static int count;  
    public:  
        MyClass(int m)  
        {  
            x = y = m;  
            count++;  
        }  
        ~MyClass()  
        {  
            count--;  
        }  
        static int GetCount()  
        {  
            return count;  
        }  
    friend MyClass FillMyClass();  
    friend void PrintMyClass(MyClass obj);  
};  
int MyClass::count = 0;
```

```

 MyClass FillMyClass()
{
    MyClass obj(7);
    obj.x = 5;
    obj.y = 7;
    return obj;
}
void PrintMyClass(MyClass obj)
{
    cout << "X = " << obj.x ;
    cout << "Y = " << obj.y ;
}

```

What is the Output of:

```

int main()
{
    MyClass obj(8);
    obj = FillMyClass();
    PrintMyClass(obj);
    cout << obj.GetCount();
    return 0
}

```

(2 Points) 

X=5 Y=7 0

X=5 Y=7 1

X=5 Y=7 -1

Other

14. Consider the following code

```

class Base
{
protected:
    int x, y;
public:
    Base() {x = y = 3;}
    int GetX(){return x;}
    int Sum() {return (x+y);}
    virtual int Product(){return (x*y);}
}

```

```
};

class Derived
{
    int z;
public:
    Derived() {z = 5;}
    virtual int Sum() {return (x+y+z);}
    int Product(){return (x*y*z);}
};

int main()
{
    Base *ptr;
    ptr = new Derived();
    cout<< ptr->Sum()
}
```

The previous code output is: (2 Points) 

- 6
- 11
- Unexpected Value
- Compiler error

15. Consider the following class:

```
class polygon
{
protected:
    int width, height;
public:
    void set_values (int a, int b)
    { width = a; height = b; }
};

class output1
{
public:
    void output (int i);
};

void output1::output (int i)
{ cout << i << endl; }
```

```
class rectangle: public polygon, public output1
{
public:
    int area ()
    { return (width * height); }
};

class triangle: public polygon, public output1
{
public:
    int area ()
    { return (width * height / 2); }
};

int main ()
{
    rectangle rect;
    triangle trgl;
    rect.set_values (4, 5);
    trgl.set_values (4, 5);
    rect.output (rect.area());
    trgl.output (trgl.area());
    return 0;
}
```

The previous code output: (2 Points) 

- 20
- 10
- 20 10
- None of the above

16. Consider the following class:

```
class Base
{
public:
    virtual void print() = 0;
};

class DerivedOne : public Base
{
public:
```

```
void print()
{ cout << "DerivedOne\n"; }
};

class DerivedTwo : public Base
{
public:
    void print()
    { cout << "DerivedTwo\n"; }
};

class Multiple : public DerivedOne, public DerivedTwo
{
public:
    void print()
    { DerivedTwo :: print(); }
};

int main()
{
    int i;
    Multiple both;
    DerivedOne one;
    DerivedTwo two;
    Base *array[ 3 ];
    array[ 0 ] = &both;
    array[ 1 ] = &one;
    array[ 2 ] = &two;
    array[ i ] -> print();
    return 0;
}
```

What is the output of the previous program? (2 Points) 

- DerivedOne
- DerivedTwp
- Error
- None of the mentioned

17. WE can write a class object in a text file by: (2 Points) 

- a) Override the << operator in ostream

b) Override the << operator in ostream

c) Both a and b

d) Either a or b

18. class A

```
{ public:  
A(int n = 0)  
{ m_n = n; }  
A(A& a)  
{ m_n = a.m_n;  
++m_copy_ctor_calls;  
}  
static int m_copy_ctor_calls;  
private:  
int m_n;  
};  
int A::m_copy_ctor_calls = 0;  
A f(A& a)  
{ return a; }  
A g(A a)  
{ return a; }  
int main()  
{ A a;  
A b = a, c(a);  
cout << A::m_copy_ctor_calls;  
b = g(c);  
cout << A::m_copy_ctor_calls;  
A& d = f(c);  
cout << A::m_copy_ctor_calls << endl;  
return 0;  
} (2 Points) 
```

245

254

compile error

- None of the above

```
19. class MyClass
{
    int x;
public:
    MyClass()
    { x = 5; }
    friend ostream& operator <<(ostream& o, MyClass m);

};

ostream& operator <<(ostream& o, MyClass m)
{
    o<<m.x<<endl;
    return o;
}

int main()
{
    MyClass obj;
    ofstream out("C:\\\\test\\\\myfile.txt",ios::out);
    out << obj;
    out.close();

    return 0;
} (2 Points) 
```

- Write 5 to myfile.txt
- error: << operator is not overloaded for ofstram class
- will compile without error, but don't write to myfile.txt
- Compile, Create myfile.txt but

20. class MyClass

```
{  
    int x;
```

```
public:  
    MyClass()  
    { x = 5; }  
    int GetX(){return x;}  
    friend istream& operator >>(istream& i, MyClass* m);  
  
};  
istream& operator >>(istream& i, MyClass* m)  
{  
    i>>m->x;  
    return cin;  
}  
int main()  
{  
    MyClass obj;  
    cin>>&obj;  
    cout<<obj.GetX();  
    return 0;  
} (2 Points) 
```

Compile time error

run time error

fill the MyClass object

Nothing

21. class MyClass

```
{  
    public:  
    MyClass()  
    {cout << "Call of Default Constructor" << endl;}  
    MyClass(int m)  
    {cout << "Call of Parametrized Constructor" << endl;}  
    MyClass(MyClass &m)  
    {cout << "Call of Copy Constructor" << endl;}  
    ~MyClass()  
    {cout << "Call of Destructor" << endl;}  
    MyClass operator= (MyClass obj)  
    {cout << "Call of Overloading of = operator" << endl;}
```

```
    return obj;}  
};  
MyClass FillClass()  
{ MyClass obj;  
    cout << "Call of Fill method" << endl;  
    return obj;  
}  
void PrintClass(MyClass obj)  
{ cout << "Call of Print method" << endl;}  
int main()  
{  
    MyClass obj;  
    obj = FillClass();  
    PrintClass(obj);  
    return 0;  
}
```

What are the number of output statement (2 Points) 

10

11

12

13

22. class MyClass
{
 static int Count;
public:
 MyClass()
 {Count++;}
 ~MyClass()
 {Count--;}
 static int GetCount()
 {return Count;}
};
int MyClass::Count = 0;
void Print(MyClass obj)
{
int main()

```
{  
    MyClass obj[5];  
    for(int i = 0 ; i < 5 ; i+=2)  
    {  
        Print(obj[i]);  
    }  
    cout<<MyClass::GetCount();  
    return 0;  
}
```

The Output of the previous code: (2 Points) 

0

1

2

3

23. class Base

```
{  
protected:  
    int x;  
public:  
    Base(int a)  
    { x = a; }  
    Base(Base& rb)  
    { x = rb.x; }  
    void SetX(int a)  
    { x = a; }  
    int GetX()  
    { return x; }  
};  
class Derived : public Base  
{  
    int y;  
public:  
    Derived()  
    { y = 0; }  
    Derived(int a, int b) : Base(a)  
    { y = b; }
```

```
Derived(Derived& rd)
{ y = rd.y; }
void SetY(int b)
{ y = b; }
int GetY()
{ return y; }
int Product()
{ return (x * y); }
};

int main()
{
    Derived obj(3, 4);
    Derived drv(obj);
    cout << drv.Product() << endl;
    return 0;
} (2 Points) 
```

12

4

Compile Error

None of the above

24. class Base

```
{  
protected:  
    int x;  
public:  
    Base()  
    { x = 0; }  
    Base(int a)  
    { x = a; }  
    Base(Base& rb)  
    { x = rb.x; }  
    void SetX(int a)  
    { x = a; }  
    int GetX()  
    { return x; }  
}
```

```
};

class Derived : public Base
{
    int y;
public:
    Derived()
    { y = 0; }
    Derived(int a, int b) : Base(a)
    { y = b; }
    Derived(Derived& rd)
    { y = rd.y; }
    void SetY(int b)
    { y = b; }
    int GetY()
    { return y; }
    int Product()
    { return (x * y); }
};

int main()
{
    Derived obj(3, 4);
    Derived drv(obj);
    cout<< drv.Product() << endl;
    return 0;
}*/ (2 Points)
```

0

4

12

Compile error

25. Multiple inheritance from 2 parents that inherit the same grand parent always perform ambiguity error (1 Point) 

True

False

26. Inline method can't be applied for non member method (1 Point) 

 True False

27. Call by reference give the same effect of call by address, as they both access the original data through its address (1 Point) 

 True False

28. When the default constructor is absent, the compiler always creates an auto default constructor (1 Point) 

 True False

29. cin is a variable from istream class defined in iostream (1 Point) 

 True False

30. As Non static method is called by an object from the class, so it can deal with non static member only (1 Point) 

True False

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