

2. The compiler translates the code into machine language immediately and performs the instruction (1 Point) 

True

False

3. The static members in a class can be used in static Methods of the same class only (1 Point) 

True

False

4. The switch statement can deal with integer and character types. (1 Point) 

True

False

5. We use the inheritance for extending the base class and increasing more member functions and member variables. (1 Point) 

True

False

6. Control always return to the caller when the function terminates normally (1 Point) 

True

False

7. The class contains virtual function is called abstract class (1 Point) 

True

False



False

9. A class D can be derived from a class C, which is derived from a class B, which is derived from a class A. (1 Point) 



True



False

10. All elements in the array must be of the same data type (1 Point) 



True



False

11. A pointer to a derived class can point to objects of a base class. (1 Point) 



True



False

12. The do..while loop, executes at least once. (1 Point) 



True



False

13. The derived class can access protected member of the base class only (1 Point) 



True



False

14. We can change the array size during the program execution. (1 Point) 



True



False

15. When you run the following piece of code, the output will be:

```
for (i=10 ; i >=0 ; i -= 5)
{
    Cout<<"i = "<<10-(i-1);
}
```

(2 Points)

a) i = 1 i = 5 i = 10

b) i = 1 i = 6 i = 11

c) i = 1 i = 6

d) i = 1 i = 2 i = 3

16. A destructor is: (2 Points)

a) A member function removes object from memory.

b) A member function called automatically when an object is being removed from the memory.

c) A private member function can never be called.

d) None of the above.

17. You have the following piece of code:

```
int x = 0 , y = 4 ;
while ( x < 11)
{
    y--;
    x += 2 * y ;
}
```

when the loop has finished the value of x is :

(2 Points)

1

12

13

14

18. In the array below, how can you access the element which has the value 4:

```
int Arr[3][3] = { {1, 2, 3} , {4, 5, 6} , {7, 8, 9} };
```

(2 Points)

Arr[0][0]

Arr[0][1]

Arr[1][0]

19. Consider the following class:

```
class XX
{
int i;
char c;
public:
void seti(int r){}
char getc(){return c;}
void printITI(){cout<<"ITI";}
};

void printITI(){cout<<"Information Technology Institute";}
void main()
{
XX x;
x.printITI();
}
```

The previous code prints:

(2 Points) ↗

Information Technology Institute

ITI

ITI then Information Technology Institute

None of the above

20. The constructor of base class called automatically: (2 Points) ↗

When any member function of the derived class called.

After the constructor of the derived class started.

Before the constructor of the derived class started.

We do not know when exactly will be started.

21. When you run the following piece of code, the output will be:

```
int x=35;
switch(x)
{
case 20:
cout<<"value of X < 20 and equal: "<< x;
break;
case 30:
cout<<"value of X > 30 and equal: "<< x;
break;
default:
cout<<"value of X is: "<< x;
break;
}
```

(2 Points) ↗

value of X > 30 and equal: 35

value of X is: 35

none of the above.

22. We use the pure virtual function for: (2 Points)

- Overriding the function inherited from the base class by a function in the derived class with the same name but different arguments.
- Overriding the function from the derived class by a function in the base class with the same name and the same arguments
- Overriding the function inherited from the base class by a function in the derived class with the same name and the same arguments.

23. How many times will the statement `x = 1` be executed?

```
for(j = 1; j <= n ; j++)  
{  
    for(j = 1; j <= n ; j++)  
    {  
        x = 1;  
    }  
}
```

(2 Points)

1 time

0 times

n times

n^2 times

24. To expose a data member to the program, you must declare the data member in the _____ section of the class (2 Points)

a) Common

b) Exposed

c) Public

d) Private

e) Protected

25. A C++ program contains a function with the header int function(double d, char c). Which of the following function headers could be used within the same program? (2 Points) ◇

- a) char function(double d, char c)
- b) int function(int d, char c)
- c) both (a) and (b)
- d) neither (a) nor (b)

26. When you pass a variable _____, C++ passes only the contents of the variable to the receiving function (2 Points) ◇

- a) by reference
- b) by value
- c) globally
- d) locally

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

28. Consider the following code:

```
class myclass
{
    int x;
protected:
    int y;
};
void main()
{
    myclass c1;
    c1.x=100;
    c1.y=500;
}
```

The above code generates:

(2 Points) 

- a) An error, x is private.
- b) An error, y is protected.
- c) No error
- d) An error, myclass is an abstract class
- e) both a and b