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Give at least one advantage and one disadvantage of templates.

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Answer ([Please click here to Add Answer](#))



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Person class is an abstract class; which have some specific features. Briefly describe the silent features of abstract class.

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Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

While overloading stream insertion and extraction operators a programmer can not declare ostream and istream reference as constant. Why?

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

Describe three properties necessary for a container to implement Generic Algorithms.

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

Consider the code given below and answer the questions at the end,

```
class Base  
{  
private:  
    int x;
```

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Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

Tell the logical error/s in the code given below with reference to resource management, also describe how we can correct that error/s.

```
class Test{  
  
public:  
int function1(){
```

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Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

The code given below has one template function as a friend of a template class,

1. You have to identify any error/s in this code and describe the reason for error/s.
2. Give the correct code after removing the error/s.

```
template<typename U>  
void Test(U);
```

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

What is virtual function? Explain it with coding example.

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

Briefly give benefits of the use of static variable noOfStudents along with static method by considering following coded example:

```
class Student {  
static int noOfStudents;
```

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

What will be output when this code will be executed?

1. #include <iostream.h>
2. #include <stdlib.h>
3. using namespace std;
4. template< typename T >

Answer ([Please click here to Add Answer](#))

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Why we need to use friend functions when overloading insertion and extraction operators?

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Update following code to make it capable of terminating gracefully in case of variable value2 is zero:

```
int Quotients (int value1, int value2 ) {  
    if(value2 == 0){  
        cout << "cannot be zero" << endl;  
    }  
    return value1 / value2;  
}
```

Answer ([Please click here to Add Answer](#))

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If we declare a function as friend of a template class will it be a friend for a particular data type or for all data types of that class.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

In both virtual inheritance and multiple inheritance, copy/copies of base class are created. Please list down; how many copy/copies of base class are created for:

Virtual Inheritance

Multiple inheritance

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

What is Graceful Termination method of Error Handling; give its example using C++ code.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Write a function template named maximum. The function takes two values of the same type as its arguments and returns the larger of the two arguments (or either value if they are equal). Give the function prototype and definition for the template.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

The code given below has one template function as a friend of a template class,

1. You have to identify any error/s in this code and describe the reason for error/s.
2. Give the correct code after removing the error/s.

```
template<typename U>  
void Test(U);
```

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Write C++ code for declaring the following

Class:

Course

Attributes:

Name of type String

Answer ([Please click here to Add Answer](#))

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Name of type String
Code of type String
Method:
getCode()

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Write C++ code for the **constructor** of following template Vector class.

```
template< class T >  
class Vector {  
private:  
    T* ptr;
```

Answer ([Please click here to Add Answer](#))

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```
private:  
    T* ptr;  
    int size;  
    int index;  
public:  
    Vector( int = 10 ); // constructor  
};
```

Answer ([Please click here to Add Answer](#))

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What are the non - type parameters for templates?

Answer ([Please click here to Add Answer](#))

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What is the difference between Simple Model and Object Oriented Model?

Answer ([Please click here to Add Answer](#))

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In which situations we should use **Operator Overloading** and in which situations we should use **Templates**.

Answer ([Please click here to Add Answer](#))

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What do you mean by Stack unwinding?

Answer ([Please click here to Add Answer](#))

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What will be output after executing following lines of code, (suppose there is no error and code will be executed correctly), justify your answer as well,

```
class Student{
    static int noOfStudents;
    int rollNo;
public:
```

Answer ([Please click here to Add Answer](#))

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```
Student::Student(){
    noOfStudents++;
}
Student::~~Student(){
    noOfStudents--;
}
```

Answer ([Please click here to Add Answer](#))

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```
static int getTotalStudent(){
    return noOfStudents;
}
};
int Student::noOfStudents = 0;
int main(){
```

Answer ([Please click here to Add Answer](#))

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```
Student obj1,obj2,  
{  
    Student obj3;  
  
}  
cout<<Student::getTotalStudent();
```

Answer ([Please click here to Add Answer](#))

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In which situation do we need to implement virtual inheritance? Explain with the help of an example.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Identify and correct the syntax error(s) in the given code snippet?

```
template<classname T>
```

```
class Template_class {
```

```
private:
```

```
T data;
```

Answer ([Please click here to Add Answer](#))

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```
//...  
Public:  
//...  
void input();  
};
```

Answer ([Please click here to Add Answer](#))

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```
template< class T >
void Template_class::input( ) {
cin>>data;
}

void main()
```

Answer ([Please click here to Add Answer](#))**VuAnswers.com****Made by: Waqar Siddhu**

```
void main()
{
Template_class <int>obj;
obj.input();
}
```

Answer ([Please click here to Add Answer](#))

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Tell the logical error/s in the code given below with reference to resource management; also describe how we can correct that error/s.

```
class Test{  
  
public:  
int function1(){
```

Answer ([Please click here to Add Answer](#))

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

Answer ([Please click here to Add Answer](#))

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```
        }  
        catch(Exception e){  
            ...  
        }  
    }  
};
```

Answer ([Please click here to Add Answer](#))

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The code given below has one template function as a friend of a template class,

1. You have to identify any error/s in this code and describe the reason for error/s.
2. Give the correct code after removing the error/s.

```
template<typename U>  
void Test(U);
```

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

```
template< class T >

class B {
    int data;
    public:
    friend void Test<>( T );
```

Answer ([Please click here to Add Answer](#))

VuAnswers.com

**Made by: Waqar Siddhu**

Can we achieve Information Hiding by separating Interface and Implementation of an object? Justify your answer.

Answer ([Please click here to Add Answer](#))

VuAnswers.com



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In which situations we should use **Operator Overloading** and in which situations we should use **Templates**.

Answer ([Please click here to Add Answer](#))

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Describe two key components of STL?

Answer ([Please click here to Add Answer](#))

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If we declare a function as friend of a template class will it be a friend for a particular data type or for all data types of that class.

Answer ([Please click here to Add Answer](#))

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Tell the two ways to indicate the compiler that we are overloading post increment operator.

Answer ([Please click here to Add Answer](#))

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Give the general syntax of nested try catch blocks?

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

The code given below has one template function as a friend of a template class,

1. You have to identify any error/s in this code and describe the reason for error/s.
2. Give the correct code after removing the error/s.

```
template<typename U>  
void Test(U);
```

Answer ([Please click here to Add Answer](#))

VuAnswers.com



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Consider the following code segment:

```
class Complex{  
private:  
double real, img;  
public:
```

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

Consider the following code segment:

```
class Alphabets {  
public:  
virtual void write()=0;  
};
```

Answer ([Please click here to Add Answer](#))

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What is the output produced by the following program?

```
#include<iostream.h>
```

```
void sample_function(double test) throw (int);
```

```
int main()
```

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Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu


```
{  
    try  
    {  
        cout << "Trying.\n";  
        sample_function(98.6);  
        cout << "Trying after call.\n";  
    }  
}
```

Answer ([Please click here to Add Answer](#))

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**Made by: Waqar Siddhu**

```
        cout << "Catching\n";  
    }  
    catch(int)  
    {  
        cout << "Catching\n";  
    }
```

Answer ([Please click here to Add Answer](#))

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```
    cout << "End program.\n";  
    return 0;  
}  
void sample_function(double test) throw (int)  
{  
    cout << "Starting sample_function.\n";
```

Answer ([Please click here to Add Answer](#))

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```
void sample_function(double test) throw (int)
{
    cout << "Starting sample_function.\n";
    if(test < 100)
        throw 42;
}
```

Answer ([Please click here to Add Answer](#))

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What are the non - type parameters for templates?

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Define Catch Handler in berief.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

How static and dynamic binding is used in the case of virtual functions? Justify your answer as well.

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Can we use initialization list to set the value of any base class public data member? Justify your answer in either case as well.

Answer ([Please click here to Add Answer](#))

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Write a template function that takes one template parameter and always returns value that is always equal to double of its parameter value (parameter * 2).

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Give c++ code to overload assignment operator for string class.

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Consider the code below,

```
template< typename T >  
class T1 {  
    public:  
    T i;
```

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Tell the logical error/s in the code given below with reference to resource management; also describe how we can correct that error/s.

```
class Test{  
  
public:  
int function1(){
```

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Write c++ code to overload **subscript[]** operator for **String class**.

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Consider the code below,

```
#include <iostream>
#include <stdlib.h>
using namespace std;
class Shape{
```

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

There are some errors in the code given below, you have to

1. Indicate the line no. with error/s
2. Give the reason for error/s
3. Correct the error/s.

1. #include <iostream>

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Create a Vector array of length 8, and also initialize the elements of this array with values 0 1 2 3 4 5 6 7.

Answer ([Please click here to Add Answer](#))

VuAnswers.com



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Describe the way to declare a template function as a friend of any class.

Answer ([Please click here to Add Answer](#))

VuAnswers.com



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Made by: Waqar Siddhu

Illustrate any two properties of a constructor.

Answer ([Please click here to Add Answer](#))

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State any conflict that may arise due to multiple inheritance.

Answer ([Please click here to Add Answer](#))

VuAnswers.com



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What do you mean by Stack unwinding?

Answer ([Please click here to Add Answer](#))

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Consider the following information:

Class name= Doctor

Attributes= Id, name, designation, salary

Methods=checkup, prescribe, eat, walk

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

In both virtual inheritance and multiple inheritance, copy/copies of base class are created. Please list down; how many copy/copies of base class are created for:

Virtual Inheritance

Multiple inheritance

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Give C++ code of template function to print the values of any type of array.

Hint: This function will take two parameters one will be array pointer and other will be size of the array.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Write C++ code that uses try catch block in member initialization list of any class.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

The code given below has one template function as a friend of a template class,

1. You have to identify any error/s in this code and describe the reason for error/s.
2. Give the correct code after removing the error/s.

```
template<typename U>  
void Test(U);
```

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Write a program which consists of a class named **Zakat** and consists of two data members **OwnerName** and **Totalamount**, the class should also consists of three constructors i.e. Default constructor , one argument constructor and two argument constructor.

The class should further consists of a member function named **Cal_zakat ()** which calculate the zakat.

It should be keep in mind that the zakat will be calculated only if the **Totalamount** is greater than or equal to 20,000.

In main program define three object of this class for respective constructors and also display the zakat for each object.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Consider the following code:

```
// publication class and derived classes
#include <iostream>
#include <string>
using namespace std;
```

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Write C++ code for the **overloaded subscript operator** of following template Vector class.

```
template< class T >
class Vector {
private:
    T* ptr;
```

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

```
T* ptr;  
int size;  
int index;  
public:  
    T& operator [](int); // overloaded subscript operator  
};
```

Answer ([Please click here to Add Answer](#))

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Sort the following data in the order in which compiler searches a function?
Complete Specialization, Generic Template, Partial Specialization, Ordinary Function.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Friend functions minimize "Encapsulation", What is your opinion?

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

State any two reasons why virtual methods can not be static?

Answer ([Please click here to Add Answer](#))

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Write a template function that takes one template parameter and always returns value that is always equal to double of its parameter value (parameter * 2).

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Describe three properties necessary for a container to implement Generic Algorithms.

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Consider the following code:

```
class Teacher {  
int id  
char * name;  
float salary
```

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

What is Graceful Termination method of Error Handling, give its example using C++ code.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

See the 5 code snippets below and tell whether these are correct or incorrect also justify your answers in the table given at the end.

Snippet No.1

```
template< class T>  
class A {
```

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Write a program which consists of a class named **Department**, this class should consists of two data members **DeptName** and **No_of_emps**, The class should further consists of three overloaded constructors, i.e. Default constructor, one argument constructor and two argument constructor and a member function named **Display** which display the Department information.

In main program define three reference variables for respective constructors and display its information.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

Consider the following code:

```
// publication class and derived classes
#include <iostream>
#include <string>
using namespace std;
```

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Answer ([Please click here to Add Answer](#))



A rich text editor toolbar with various icons for file operations (New, Open, Save, Print, Find), editing (Cut, Copy, Paste), and formatting (Bold, Italic, Underline, Bulleted List, Numbered List, Indent, Outdent). It also includes a font color selector, a font size dropdown set to 12, and a zoom level dropdown set to 100%.

Made by: Waqar Siddhu

Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

Create a Vector array of length 8, and also initialize the elements of this array with values 0 1 2 3 4 5 6 7.

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Answer ([Please click here to Add Answer](#))



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