

VIRTUAL UNIVERSITY OF PAKISTAN

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CORRECT ANSWER SOLVED BY HADI
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(Final Term Past Paper)

(Made by Waqar & Solved By Hadi)

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is the best approach to implement generic algorithms with minimum number of coding lines?

Answer (Please select your correct option)

- Templates
- Overloading
- Overriding
- Friend function/class



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Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

Identify the correct way of declaring an object of user defined template class A for char type members?

Answer (Please select your correct option)

A < char > obj;



<char>A obj;

A obj<char>;

Obj <char> A;



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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

When the base class and the derived class have a member function with the same name, you must be more specific which function you want to call (using _____).

Answer (Please select your correct option)

scope resolution operator

dot operator

null operator

Operator overloading



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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

An abstract class is useful when,

Answer (Please select your correct option)

- We do not derive any class from it.
- There are multiple paths from one derived class to another.
- We do not want to instantiate its object.
- You want to defer the declaration of the class.



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Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

Considering the resolution order in which compiler search for functions in a program; the first priority is given to,



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Answer (Please select your correct option)

- general template
- partial specialization
- complete specialization
- ordinary function

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Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

Three main characteristics of "Object Oriented programming" are,

Answer (Please select your correct option)

- encapsulation, dynamic binding, polymorphism
- polymorphism, overloading, overriding
- encapsulation, inheritance, dynamic binding
- encapsulation, inheritance, polymorphism



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Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

A private member or variable is not accessible to:

Answer (Please select your correct option)

Base class

Derived class

Abstract class

virtual class



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Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

A non virtual member function `ding()` in base and derived class, and pointer `p` to base class object contains the address of derived class object, then the statement `p->ding()` will execute `ding()` member function in _____ class.

Answer (Please select your correct option)

Base

Derived

Abstract

virtual



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Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

A virtual member function `ding()` in base and derived class, and pointer `p` to base class object contains the address of derived class object, then the statement `p->ding()` will execute `ding()` member function in _____ class.

Answer (Please select your correct option)

- Base
- Derived
- Virtual
- Implemented



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Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

By default, which access level is assigned to members of a class?

Answer (Please select your correct option)

Public

Private

Local

Protected



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Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following can be the instance of class Vehicle?

Answer (Please select your correct option)

- Car, Computer, Desk
- Ahmad, Bicycle, Truck
- Computer, Truck, Ahmad
- Car, Bicycle, Truck



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Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

In OOP's, advantage of inheritance include all of the given below except,

Answer (Please select your correct option)

- Provide a useful conceptual framework
- Reusing the code
- Dealing with real world entities
- Decrease maintainability



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Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

What would be the output of following code?

```
class dummy
{
private:
    int data;
```

Answer (Please select your correct option)

- Compile-time error
- Output is 0
- Run-time error
- Output will be a garbage value



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Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

Which will be the good example of a method that is shared by all instances of a class?

Answer (Please select your correct option)

- Virtual method
- Overloaded method
- Constant method
- Static method



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Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

If you do not initialize static variable of int type then it is automatically initialized with _____.

Answer (Please select your correct option)

0 ✓

1

-1

Null



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Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

Public methods of base class can be _____ accessed in the derived class.

Answer (Please select your correct option)

- Directly
- Indirectly
- Consecutively
- Simultaneously



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Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

Which members are lies somewhere between public and private members?

Answer (Please select your correct option)

Protected members ✓

Global members

Static members

Friends members



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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

The operations of copy constructor must define by:

Answer (Please select your correct option)

- System
- User
- System and User
- Administrator



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Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

A base class member or method that is alternatively defined in derived class is known as _____.

Answer (Please select your correct option)

Overloaded

Copy riding

Overwriting

Overriding



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Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

All the _____ members of base class can be accessed from the derived class.

Answer (Please select your correct option)

- Private
- Protected
- Non private
- Public



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Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

When a virtual function is called by referencing a specific object by name and using the dot member selection operator (e.g., squareObject.draw()), the reference is resolved at _____.

Answer (Please select your correct option)

Run time

Compile time

Processing time

Execution time



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Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following causes a compile time error?

Answer (Please select your correct option)

- Declaring object of a concrete class in the definition of main function
- Writing output statement in constructor's definition
- Declaring object of a class having atleast one pure virtual function
- Declaring object of a class having all virtual functions



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Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

Multiple inheritance can be of type

Answer (Please select your correct option)

- Public, Private
- Private, Protected
- Protected, Public
- Public, Protected, Private



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Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

Consider the following statements:

- 1) `int iArray[5];`
- 2) `int *pArr = iArray;`

Answer (Please select your correct option)

Error in first statement

Error in second statement

Error in both statements

No error in both statements



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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

```
template<> class Vector<void*>{
    void** p;
    //...
    void*& operator[] ((int i);
};
```

Answer (Please select your correct option)

- This specialization can be used as the common implementation for all Vectors of pointers.
- This specialization can then be used as the implementation for all types of classes.
- This specialization can then be used for double type pointers.
- This specialization should be used for Vectors of int types.



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Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is NOT an advantage of generic programming?

Answer (Please select your correct option)

- Reusability
- Writability
- Maintainability
- Efficient memory usage



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Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

Which one of the following is example of complete specialization,

Answer (Please select your correct option)

`template <typename T> class Vector { };`

`template <typename T> class Vector<T*> { };`

`template<> class Vector <char*> { };`

`template <class T> class Vector< T *> { };`



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Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

Template functions use _____ than ordinary functions.

Answer (Please select your correct option)

More Memory

Less Memory

Same Memory

Different Memory



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Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

An STL algorithm is

Answer (Please select your correct option)

- A standalone function that operates on containers.
- A link between member functions and containers.
- A friend function of appropriate container classes.
- A member function of appropriate container classes.



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Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

A vector is an appropriate container if you

Answer (Please select your correct option)

- want to insert lots of new elements at arbitrary locations in the vector.
- want to insert new elements, but always at the front of the container.
- are given an index number in order to quickly access the corresponding element.
- are given an element key value in order to quickly access the corresponding element.



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Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

The find() algorithm

Answer (Please select your correct option)

- Finds matching sequences of elements in two containers.
- Finds a container that matches a specified container.
- Takes iterators as its first two arguments.
- Takes container elements as its first two arguments.



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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

A range is often supplied to an algorithm by two _____ values.

Answer (Please select your correct option)

- italic
- iteration
- iterator
- container



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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is Not an example of error handling techniques?

Answer (Please select your correct option)

Abnormal Termination

Graceful Termination

Return the illegal value

Returning a value



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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ remain in memory even when all objects of a class have been destroyed.

Answer (Please select your correct option)

Static variables

Instance variable

Primitive variables

Dynamic Variables



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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

Assume that a user wants to count, how many objects are created for a particular class, which one will be most suitable to perform this task:

Answer (Please select your correct option)

- Const data member
- Non static data member
- Static data member
- Global data member



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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

We change the evaluation precedence of operators through operator overloading.

Answer (Please select your correct option)

Can

Can not

✓ **doubt**

Only

Just



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Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

In a de-queue, (chosed the best option)

Answer (Please select your correct option)

- Data can be quickly inserted or deleted at any arbitrary location.
- Data can be relatively slowly inserted or deleted at any arbitrary location.
- Data can not be quickly inserted or deleted at either end.
- Data can be relatively slowly inserted or deleted at either end.



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Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

Suppose you create an uninitialized vector as follows:

```
vector<int> evec;  
After adding the statment,  
evec.push_back(21);  
what will happen?
```

Answer (Please select your correct option)

- It will add an element to the start of evec and will initialize it with 21.
- It will add an element to the center of evec and will reinitialize it with 21.
- It will delete an element to the end (the back) of evec and will reinitialize it with 21.
- It will add an element to the end (the back) of evec and initialize it with 21.



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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

```
class DocElement
{
public:
    virtual void Print() { cout << "Generic element"; }
};
class Heading : public DocElement
```

Answer (Please select your correct option)

- Generic element
- Heading element
- Paragraph element
- Nothing will be printed.



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Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

Each try block can have _____ no. of catch blocks.

Answer (Please select your correct option)

1

2

3

As many as necessary.



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Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

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

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



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Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

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

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



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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

What do you mean by Stack unwinding?

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



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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

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

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



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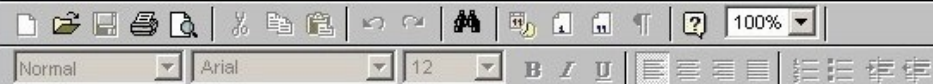
Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

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

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

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



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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

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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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

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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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

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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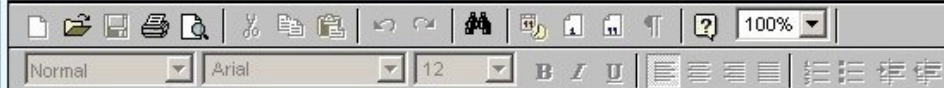
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Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

What is virtual function? Explain it with coding example.

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



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Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

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

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

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



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