

# VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

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## (Final Term Past Paper)

MADE AND SOLVED BY TEAM 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!



PAST PAPER

Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

Loop is also called \_\_\_\_\_ structure.

Answer ( Please select your correct option )

- Decision
- Repetition
- Sequential
- Hierarchical

correct

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Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

When a multidimensional array is accessed, each array index is \_\_\_\_\_

Answer ( Please select your correct option )

- separated by commas
- surrounded by brackets and separated by commas
- separated by commas and surrounded by brackets
- surrounded by brackets.

**correct**

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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the given operators is not a valid compound assignment operator ?

Answer ( Please select your correct option )

- >>=
- ==>>
- \*=
- &=

correct

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Question No : 4 of 52 Marks: 1 (Budgeted Time 1 Min)

To assigned a value to a character type variable, \_\_\_\_\_ are used around the value.

Answer ( Please select your correct option )

- parenthesis ( )
- single qoutes ' ' correct
- double qoutes " "
- curly braces { }

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Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

We use variable of type \_\_\_\_\_ to store any character value like a, b, c.

Answer ( Please select your correct option )

int

double

float

char

**correct**

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Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following data types will be assumed if no data type is specified with constant?

Answer ( Please select your correct option )

- short
- float
- int **← correct**
- double

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Question No : 7 of 52 Marks: 1 (Budgeted Time 1 Min)

Which header file should be included to use functions like malloc() and calloc()?

Answer ( Please select your correct option )

- memory.h
- iostream.h
- stdlib.h** **correct** 
- conio.h

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Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

If we have  $x = 7$  then the new value of  $x$  after evaluating the expression  $x\%= 2$  is \_\_\_\_\_

Answer ( Please select your correct option )

2

3

1

7

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Question No : 9 of 52 Marks: 1 (Budgeted Time 1 Min)

The statement  $x += y$  can be interpreted as \_\_\_\_\_.

Answer ( Please select your correct option )

- Adding the value of the x to the value of the y and storing the result in x
- Adding the value of the y to the value of the x; store the result in y
- Adding the value of the x to the value of the x; store the result in x
- Adding the value of the y to the value of the y; store the result in x

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Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

A variable declared inside a code block becomes \_\_\_\_\_ variable for that block.

Answer ( Please select your correct option )

global

static

local

inner

correct



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Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

If a friend function outside the class declares itself friend of the class, this may violate the concept of \_\_\_\_\_.

Answer ( Please select your correct option )

- Encapsulation and data accessing
- Encapsulation and data hiding
- Friend member functions of the class
- Interface of the class

**correct**



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Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

Initializing the data members in the definition of the class is \_\_\_\_\_

Answer ( Please select your correct option )

- syntax error
- logical error
- not an error
- compile time error



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Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

The functions width, fill and precision are defined in \_\_\_\_\_ header file.

Answer ( Please select your correct option )

- conio.h
- iomanip.h
- iostream.h
- stdlib.h

← correct

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Question No : 14 of 52 Marks: 1 (Budgeted Time 1 Min)

width() is a member function of \_\_\_\_\_

Answer ( Please select your correct option )

- cin object
- cout object
- Both cout and cin objects
- User-defined class

correct



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Question No : 15 of 52 Marks: 1 (Budgeted Time 1 Min)

The first parameter of operator function for << operator,

Answer ( Please select your correct option )

- Must be passed by value
- Must be passed by reference
- Can be passed by value or reference
- Must be object of class



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Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following option is true about static data members of a class?

Answer ( Please select your correct option )

- The static data members cannot be private or public
- The static data members must be private
- The static variables must be public
- The static data members can be private or public



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Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

When a call to a user-defined function finishes, the variable defined inside the function will \_\_\_\_\_.

Answer ( Please select your correct option )

- still in existence
- not exist further
- finish but a copy will remain in memory
- become static for other functions



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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

The pointer returned by the new operator points to \_\_\_\_\_ of memory chunks allocated by the new operator.

Answer ( Please select your correct option )

- Second memory address
- First memory address
- Last memory address
- Last memory address of the previous chunk



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Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

If overloaded plus operator is implemented as member function then which of the following option will be true for the statement given below?  
obj3 = obj1 + obj2 ;

Answer ( Please select your correct option )

- obj1 will be passed as an argument to + operator whereas obj2 will drive the + operator
- obj1 will drive the + operator whereas obj2 will be passed as an argument to + operator
- Both objects (obj1, obj2) will be passed as arguments to the + operator
- Any of the objects (obj1, obj2) can drive the + operator

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Question No : 20 of 52 Marks: 1 (Budgeted Time 1 Min)

A template function must have at least \_\_\_\_\_ generic data type.

Answer ( Please select your correct option )

- Zero
- One correct
- Two
- Three

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Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

With template function, the compiler automatically detects the \_\_\_\_\_ and generates \_\_\_\_\_ using passed data.

Answer ( Please select your correct option )

- passed data , a new copy of function
- parameters, an old copy of function
- old copy of function, parameters
- parameters, an new copy of function

**correct**

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Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

The appropriate data type to store the number of rows and columns of the matrix is \_\_\_\_\_.

Answer ( Please select your correct option )

- float
- strings
- int
- char

correct

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Question No : 23 of 52 Marks: 1 (Budgeted Time 1 Min)

ANSI stands for \_\_\_\_\_.

Answer ( Please select your correct option )

- American Neutral Standards Institute
- Australian National Standards Institute
- Asian National Standards Institute
- American National Standards Institute

**correct**

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Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

In the member initializer list, the data members are initialized \_\_\_\_\_.

Answer ( Please select your correct option )

- From left to right
- From right to left
- In the order in which they are defined within class
- There is no order for initialization

correct

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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

The initializer list is used to initialize the contained objects of a class at \_\_\_\_\_.

Answer ( Please select your correct option )

Run time

Debugging time

Construction time

Compile time

**correct**

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Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

When an object of a class is defined inside an other class then \_\_\_\_\_.

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Answer ( Please select your correct option )

- Constructor of enclosing class will be called first
- Constructor of inner object will be called first
- Constructor and Destructor will be called simultaneously
- Only destructor will be called

correct

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Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

A constructor will create a new object with a full copy of the other object, this type of copy is known as \_\_\_\_\_.

Answer ( Please select your correct option )

Deep copy

**correct**

Shallow copy

Constructor copy

Object copy

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Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

When we define an array of objects then \_\_\_\_\_.

Answer ( Please select your correct option )

- Destructor will be called once for the whole array
- Destructor will be called for each object of the array
- No Destructor will be called
- Destructor for only first object in the array will be called

correct

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Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following function is used to increase the size of already allocated memory chunk?

Answer ( Please select your correct option )

malloc

calloc

realloc

correct

free

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Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

NULL value has been defined in \_\_\_\_\_ and \_\_\_\_\_ header files.

Answer ( Please select your correct option )

- strings.h , iostream.h
- ctype.h , conio.c
- conio.c , conio.h
- stdlib.h , stddef.h

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Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following function call is correct for the function prototype?  
defaultParameters ( int a, int b = 7, char z = '\*' );

Answer ( Please select your correct option )

defaultParameters (5);

**correct**

defaultParameters (5, '8');

defaultParameters (6, '#');

defaultParameters (0, 0, '\*', 0);

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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

Friend function of a class is \_\_\_\_\_.

Answer ( Please select your correct option )

Private function

Non-member function

correct

Public function

Member function

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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

The declarator of Plus (+) member operator function is \_\_\_\_\_.

Answer ( Please select your correct option )

Class-Name operator + (Class-Name rhs)

dot

operator Class-Name + ()

operator Class-Name + ( rhs)

Class-Name operator + ()

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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

The operator function will be implemented as \_\_\_\_\_, if obj1 drive the - operator whereas obj2 is passed as arguments to - operator in the statement given below.  
obj3 = obj1 - obj2;

Answer ( Please select your correct option )

Friend function

Virtual Function

Member function

Non-member function

**correct**

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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

Consider the following code segment

```
class M {  
    friend int operator!(const M &);  
    ...  
};
```

Answer ( Please select your correct option )

- Member function
- Non-member function
- Binary operator function
- Friend Function

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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

When the compiler overloads the assignment (=) operator by default then \_\_\_\_\_.

Answer ( Please select your correct option )

- compiler does not allow default overload of assignment (=) operator
- member of the class are not assigned properly
- Compiler does assignment of some selected members
- compiler does member wise assignment.

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Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

Correct syntax of function prototype for overloading new operator is \_\_\_\_\_.

Answer ( Please select your correct option )

- void\* new operator(size\_t size)
- void\* new(size\_t size)
- operator new(size\_t size)
- void\* operator new(size\_t size)

**correct**

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Question No : 38 of 52 Marks: 1 (Budgeted Time 1 Min)

There is a pointer variable named *ptr* of type float then address of which type of variable the *ptr* will store in it?

Answer ( Please select your correct option )

- int **correct**
  - float
  - char
  - double
- Correct answer solved by hadi  
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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

Which one is the correct syntax for defining an identifier PI with preprocessor directive?

Answer ( Please select your correct option )

#undef PI 3.1415926

#define PI 3.1415926

**correct**

#define PI = 3.1415926

#ifdef PI = 3.1415926

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Question No : 40 of 52 Marks: 1 (Budgeted Time 1 Min)

Whenever we allocate any memory from the \_\_\_\_\_ then starting position of the block of the memory allocated is returned as an address that is kept in a pointer.

Answer ( Please select your correct option )

- Flush
- Buffer
- Heap correct
- Stack

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Question No : 41 of 52 Marks: 2 (Budgeted Time 4 Min)

Which are two types of conversion for user-defined data types?

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

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Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

What is returned by new operator?

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

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Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

Write down the general syntax of switch statement.

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

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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Write down the meaning of given below line of code, where m is an object of class Matrix

```
if( &m != this)
```

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

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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

Assume that you write a program to read the data from a text file. You have two options to do it, either reading the data character by character or reading multiple lines of data at a time. Which option do you think is more better and Why ?

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

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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Is it possible using operator overloading to change the behavior of - (minus operator) on integers? Justify your answer.

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

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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Write a program using getline() member function to input a string up to delimiter character comma (,) and then display the string on the screen.

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

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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

Given is the code for nested classes.

```
class First  
{  
    public:
```

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

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Write a program which defines a Template function named Add () which adds two variables and then returns the sum. Define two variables of type **double** in main function, and then call Add () function on these variables.

Program output should look like this:

Enter two double values to be added

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

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Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Write a program that calculates the area of a circle. You have to declare two variables for this, one is area and other is radius. Take the value of radius from the user.

Hint: Area of circle = 3.14 \* radius \*radius /

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

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Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

Given is the code of a class Matrix.

```
class Matrix
{
private:
int Elements[3][3];
```

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

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

What should be typical sequence of steps while overloading an assignment operator?

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

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Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

```
private:  
int Elements[3][3];  
};
```

Write the operator function of Insertion operator (<<) for this class.

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

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Enter two double values to be added

Enter First value:

12354.23

Enter Second value:

2563.25

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

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Enter Second value:  
2563.25

Addition of two variable of double data type  
Sum = 14917.5

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

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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

```
class Second
{
    public:
        void Display()
```

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

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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

```
void Display()
{
    cout<<"inner Object called...";
}

};
```

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

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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

```
}  
};  
};  
Write main() function to create an object of inner class and then call its function Display().
```

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

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