

CS201 Final Term Papers By Waqar (File 2)

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

Which of the following function call is "call by reference" for the following function prototype?
`void func (int *);`

Answer (Please select your correct option)

VuAnswers.com

`func(int &num);`

`func(&num);`

correct

`func(*num);`

`func(num);`

Made by: Waqar Siddhu

Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

What is the highest legal index for the following array?
`int arr[4]`

Answer (Please select your correct option)

VuAnswers.com

4

3

correct

2

1

Made by: Waqar Siddhu

Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is the correct way to initialize a character array 'course' with string 'programming'?

Answer (Please select your correct option)

VuAnswers.com

`course[12]="programming";`

correct

`course[] = ("programming");`

`course[] = 'programming';`

`course = "programming";`

Made by: Waqar Siddhu

Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

Using a segment of source code again by adding new functionalities with slight or no modification is termed as _____.

Answer (Please select your correct option)

VuAnswers.com

code efficiency

code reusability

correct

code modification

code compatibility

Made by: Waqar Siddhu

Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ executes all the lines before error and stops at the line which contains the error.

Answer (Please select your correct option)

VuAnswers.com

Intrepreter

correct

Compiler

Linker

Debugger

Made by: Waqar Siddhu

Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following values are used in C/C++ to represent true and false?

Answer (Please select your correct option)

VuAnswers.com

1 and 0

correct

1 and -1

11 and 00

Any numerical value

Made by: Waqar Siddhu

Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

When break statement is encountered in switch statement, it _____

Answer (Please select your correct option)

VuAnswers.com

Stops the entire program

Stops the execution of current statement

Exits from switch statement

Repeats the switch statement

correct

Made by: Waqar Siddhu

Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

What will be the output of this code segment?

```
int arr[6] = {2, 3, 7, 4, 5, 6};  
int *ptr1 = &arr[1];  
int *ptr2 = &arr[4];  
cout << (ptr2 - ptr1);
```

Answer (Please select your correct option)

VuAnswers.com

3

9

12

2

correct

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Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

In C++, Integer calculation occurs in _____ bytes.

Answer (Please select your correct option)

VuAnswers.com

1 byte

2 bytes

4 bytes

8 bytes

correct

Made by: Waqar Siddhu

Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

In windows operating system, function calling is like sending a/an _____ to the object.

Answer (Please select your correct option)

VuAnswers.com

Error

Message

correct

Request

Object

Made by: Waqar Siddhu

Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

The static data members of a class will be _____.

Answer (Please select your correct option)

VuAnswers.com

shared by objects

created for each object

initialized within class

correct

initialized within main function

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Question No : 12 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)

VuAnswers.com

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 : 13 of 52 Marks: 1 (Budgeted Time 1 Min)

When a variable is defined as static in a class then _____.

Answer (Please select your correct option)

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- Separate copy of this variable is created for each object
- Only one copy is created for all objects of this class
- A copy of this variable is created for only static objects
- No copy is created for the objects of that class

correct

Made by: Waqar Siddhu

Question No : 14 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)

VuAnswers.com

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

correct

Made by: Waqar Siddhu

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

A _____ is considered as a special type of pointer which contains address of a memory location.

Answer (Please select your correct option)

VuAnswers.com

- Function
- Structure
- Reference
- Class

correct

Made by: Waqar Siddhu

Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following operator the compiler overloads for objects by default?

+ operator

- operator

= operator

== operator

correct

VuAnswers.com

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Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

If C1 and C2 are objects of the same class, what would a user get after compiling the following statement?
C1 = C2;

The compiler will generate a syntax error regarding assignment operator not overloaded.

The compiler will execute the statement but it will be a logical error.

A run time error occurs

The program will execute successfully without any logical error.

VuAnswers.com

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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

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

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

VuAnswers.com

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Question No : 19 of 52 Marks: 1 (Budgeted Time 1 Min)

What does STL stand for?

Answer (Please select your correct option) **VuAnswers.com**

- Source template library
 - Standard template library correct
 - Stream template library
 - Standard temporary library
- Made by: Waqar Siddhu**

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

Templates provide way of abstracting _____ information.

Answer (Please select your correct option) **VuAnswers.com**

- type correct
 - data
 - method
 - access
- Made by: Waqar Siddhu**

Question No : 21 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) **VuAnswers.com**

- float
 - strings
 - int correct
 - char
- Made by: Waqar Siddhu**

Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

Classes defined inside other classes are called _____ classes

- looped
- nested
- overloaded
- children classes

correct

VuAnswers.com

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Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ data members of a contained object can be accessed from inside of the containing class.

- Private
- Public
- Protected
- All

correct

VuAnswers.com

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Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

If we write a statement like $s2 = s1$; _____ will be the calling object and _____ will be passed to the = operator as an argument.

- s1, s1
- s1, s2
- s2, s1
- s2, s2

correct

VuAnswers.com

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Question No : 25 of 52 Marks: 1 (Budgeted Time 1 Min)

We can use cin peek() function to _____.

Answer (Please select your correct option) **VuAnswers.com**

- See the next character that we are going to get. **correct**
 - Get to the end of the input buffer.
 - See the first character of input buffer.
 - See the last character of the current input word.
- Made by: Waqar Siddhu**

Question No : 26 of 52 Marks: 1 (Budgeted Time 1 Min)

The stream insertion and stream extraction operators are already overloaded for _____.

Answer (Please select your correct option) **VuAnswers.com**

- User-defined data types
 - Built-in data types
 - User-defined and built-in data types **correct**
 - Constants
- Made by: Waqar Siddhu**

Question No : 27 of 52 Marks: 1 (Budgeted Time 1 Min)

The order of destruction of an object is _____.

Answer (Please select your correct option) **VuAnswers.com**

- same as the construction order.
 - reverse as the construction order. **correct**
 - independent of the construction order.
 - same as the order of objects declared.
- Made by: Waqar Siddhu**

Question No : 28 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)

VuAnswers.com

- Deep copy
- Shallow copy
- Constructor copy
- Object copy

correct

Made by: Waqar Siddhu

Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

A macro when takes arguments is called _____.

Answer (Please select your correct option)

VuAnswers.com

- function
- procedure
- parameterized macro
- simple macro

correct

Made by: Waqar Siddhu

Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is NOT a preprocessor directive?

Answer (Please select your correct option)

VuAnswers.com

- #error
- #define
- #line
- #undef

correct

Made by: Waqar Siddhu

Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

Static allocation is _____ efficient than the dynamic allocation.

- Answer (Please select your correct option)
- less
 - more
 - equally
 - it depends on the situation

VuAnswers.com

correct

Made by: Waqar Siddhu

Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

The function free() returns back the allocated memory got through calloc and malloc to _____.

- Answer (Please select your correct option)
- stack
 - heap
 - free memory store
 - both to heap and stack

VuAnswers.com

correct

Made by: Waqar Siddhu

Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

If constructor contains a return statement in its body then compiler will give _____.

- Answer (Please select your correct option)
- No error
 - Syntax error
 - Logical error
 - Run time error

VuAnswers.com

correct

Made by: Waqar Siddhu

Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

new and delete are also used with _____ and primitive data types as well.

Answer (Please select your correct option)

VuAnswers.com

loops

structures, pointers

classes , structures

correct

constant

Made by: Waqar Siddhu

Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

Memory allocated at run time is a system resource and it is the responsibility of _____ to de-allocate the memory.

Answer (Please select your correct option)

VuAnswers.com

System

Programmer

correct

User of program

Operating System

Made by: Waqar Siddhu

Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

Friend class of the other class gets _____ access to _____.

Answer (Please select your correct option)

VuAnswers.com

Partial, data member and member functions.

Read only, data member and member functions.

Complete, data members only.

Complete, all data members and member functions.

correct **Made by: Waqar Siddhu**

Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

While overloading new and delete operators, we should take care that _____.

Answer (Please select your correct option)

VuAnswers.com

They should be overloaded for specific types instead of overloading globally.

correct

Both of these operators should not be overloaded in the same program.

We should never overload either of these operators.

They should be not overloaded for specific types instead of overloading globally.

Made by: Waqar Siddhu

Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

In case of _____ default mechanism of function calling is call by value.

Answer (Please select your correct option)

VuAnswers.com

Variable

correct

Array

Heap

List

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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

A constructor has the same name as that of _____.

Answer (Please select your correct option)

VuAnswers.com

Variable

Class

correct

Structure

Function

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

The destructor for all the objects in the program is automatically called when _____.

Answer (Please select your correct option)

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- Memory is dynamically allocated to objects
- Objects are used inside functions
- Array of objects is declared
- Program is terminated

correct

Made by: Waqar Siddhu

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

What will be the value of the given expression after evaluation if x = 3 and y = 2 ?

`(++x*++y).2`

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

VuAnswers.com



Made by: Waqar Siddhu

Question No : 42 of 52 Marks: 2 (Budgeted Time 4 Min)

When memory is allocated dynamically using new operator within the constructor of class then what is an appropriate place to de-allocate the memory?

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

VuAnswers.com



Made by: Waqar Siddhu

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

How can we initialize an object which is declared as constant data member in another class ?

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

VuAnswers.com

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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

What happens when we use new and delete operators?

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

VuAnswers.com

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Made by: Waqar Siddhu

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

Consider the following code segment. What will be the output of the following code segment?

```
main() {
char string1[] = "introduction";
char string2[] = "programming";
cout << "String 1 is " << string1 << endl;
```

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

VuAnswers.com

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Made by: Waqar Siddhu

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

```
char string1[] = "introduction";
char string2[] = "programming";
cout << "String 1 is " << string1 << endl;
cout << "Size of string 1 is " << sizeof(string1) << "bytes" << endl;
cout << "String 2 is " << string2 << endl;
cout << "Size of string 2 is " << sizeof(string2) << "bytes";
```

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

VuAnswers.com

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Made by: Waqar Siddhu

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

```
cout << "String 1 is " << string1 << endl;
cout << "Size of string 1 is " << sizeof(string1) << "bytes" << endl;
cout << "String 2 is " << string2 << endl;
cout << "Size of string 2 is " << sizeof(string2) << "bytes";
}
```

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

VuAnswers.com

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Made by: Waqar Siddhu

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Is it possible to define the following two functions having the same names, in the same program? Justify your answer.

```
int func(int x, int y);
int func(int &x, int &y);
```

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

VuAnswers.com

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Made by: Waqar Siddhu

Question No : 47 of 52 Marks: 3 (Budgeted Time 6 Min)

```
Determine the output of given program code.  
  
#include <iostream.h>  
  
void staticFunc()  
{
```

Answer (Please [click here](#) to Add Answer) **VuAnswers.com**

Made by: Waqar Siddhu

Question No : 47 of 52 Marks: 3 (Budgeted Time 6 Min)

```
void staticFunc()  
{  
    static int i = 0;  
    cout << i*2 << " ";  
  
    i++;  
}
```

Answer (Please [click here](#) to Add Answer) **VuAnswers.com**

Made by: Waqar Siddhu

Question No : 47 of 52 Marks: 3 (Budgeted Time 6 Min)

```
    cout << i*2 << " ";  
  
    i++;  
}  
  
void nonstaticFunc()
```

Answer (Please [click here](#) to Add Answer) **VuAnswers.com**

Made by: Waqar Siddhu

Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

```
)  
void nonstaticFunc()  
{  
    int i = 0;  
    cout << i*2 << " ";
```

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

VuAnswers.com



Made by: Waqar Siddhu

Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

```
{  
    int i = 0;  
    cout << i*2 << " ";
```

```
    i++;  
}
```

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

VuAnswers.com



Made by: Waqar Siddhu

Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

```
    i++;  
}  
  
main()  
{
```

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

VuAnswers.com




Made by: Waqar Siddhu

Question No : 47 of 52 Marks: 3 (Budgeted Time 6 Min)

```
{
for(int j=0; j<3; j++)
{
staticFunc();
nonstaticFunc();
}
```

Answer (Please [click here](#) to Add Answer) **VuAnswers.com**

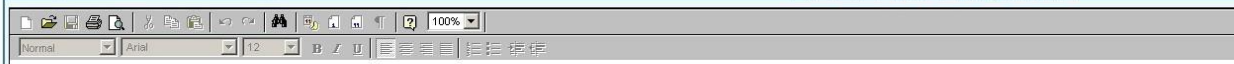


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Question No : 47 of 52 Marks: 3 (Budgeted Time 6 Min)

```
staticFunc();
nonstaticFunc();
}
```

Answer (Please [click here](#) to Add Answer) **VuAnswers.com**




Made by: Waqar Siddhu

Question No : 47 of 52 Marks: 3 (Budgeted Time 6 Min)

```
nonstaticFunc();
}
return 0;
}
```

Answer (Please [click here](#) to Add Answer) **VuAnswers.com**



Made by: Waqar Siddhu


Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

Given lines of code are three important functions of a class Matrix, describe each in one line
Matrix(int=0, int=0);
Matrix(const Matrix &);
~Matrix();

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

VuAnswers.com



Made by: Waqar Siddhu

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Write a program that defines a Template function named Square () which finds the square of a number and then return it. Define one variable of type float in main function and then call Square function on that. Program output should look like this:

Enter a float value to find its Square: 12.3
Square of float number is: 151.29

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

VuAnswers.com



Made by: Waqar Siddhu

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Let suppose

```
class String(  
private:  
char *str;  
public:
```

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

VuAnswers.com



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Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Let suppose
class String(
private:
char *str;
public:

VuAnswers.com

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

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Made by: Waqar Siddhu

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

```
public:  
void operator = (const String &s){  
    delete str;  
    str = new char[strlen(s.str)+1];  
    strcpy(str, s.str);  
}
```

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

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Made by: Waqar Siddhu

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

```
};  
main(){  
    String s, *sptr;  
    sptr=&s;  
    .....
```

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

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Question No : 50 of 52 Marks: 5 (Budgeted Time 10 Min)

```
>string s, *sptr,  
sptr=&s;  
.....  
s = *sptr  
.....  
)
```

Answer (Please [click here](#) to Add Answer) **VuAnswers.com**



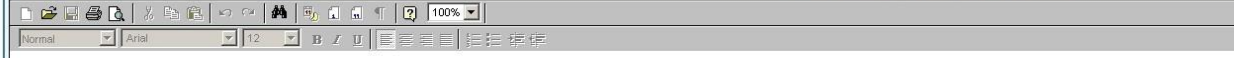
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Question No : 50 of 52 Marks: 5 (Budgeted Time 10 Min)

```
s = *sptr  
.....  
)
```

Bad coding practice has been adopted here, identify and describe it in words. Also write correct code for assignment operator.

Answer (Please [click here](#) to Add Answer) **VuAnswers.com**



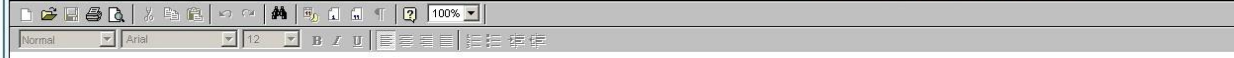
Made by: Waqar Siddhu

Question No : 50 of 52 Marks: 5 (Budgeted Time 10 Min)

```
s = *sptr  
.....  
)
```

Bad coding practice has been adopted here, identify and describe it in words. Also write correct code for assignment operator.

Answer (Please [click here](#) to Add Answer) **VuAnswers.com**



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Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

Write a program which declares and initializes an integer array of 10 elements and then using a pointer, displays the array elements in reverse order.

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

VuAnswers.com

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Made by: Waqar Siddhu

Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

Write a small program which defines a user-defined manipulator named Octal. This manipulator should convert and display the decimal number into octal form. In the main function, You have to take a decimal number as an input from the user and then by using the user-defined manipulator display the number in octal form.

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

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