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CS201 MIDTERM PAST PAPER SCREEMSHOT

The memory address of the first element of an array is called

Answer (Please select your correct option)

○ floor address

○ foundation address

○ first address

○ base address **correct**

We want to access array in random order which of the following approach is better?

Answer (Please select your correct option)

○ Pointers

correct

○ Array index

○ Both pointers and array index are better

○ Matrix

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The _____ structure is a multiple-selection construct which makes the code more efficient and easy to read and understand.

Answer (Please select your correct option)

○ multiple-if

○ switch

correct

○ if-else

○ else-if

Question No : 4 of 26

Which of the following is not a reserved word in C/C++?

Answer (Please select your correct option)

○ int

○ float

○ double

○ sum   **correct**

Question No : 5 of 26

To access rand(), which library is required to be included in program ?

Answer (Please select your correct option)

○ conio.h

○ stdio.h

○ stdlib.h **correct**

○ iostream.h

Question No : 6 of 26

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

Answer (Please select your correct option)

○ 4

○ 3   correct

○ 2

○ 1

When an array element is passed to a function, it is passed by _____.

Answer (Please select your correct option)

○ reference

correct

○ data type

○ value

○ data

Question No : 8 of 26

While programming, it is good to provide an easy to understand and easy to use interface; this programming skill is called ____

Answer (Please select your correct option)

○ scalability

○ usability   correct

○ reliability

○ sustainability

Word processor is a type of a/an _____.

Answer (Please select your correct option)

○ operating system

○ application software   **correct**

○ device driver

○ utility software

Question No : 10 of 26

'while' loop may execute _____ or more times.

Answer (Please select your correct option)

○ three

○ zero

two

○ one

Question No : 11 of 26

The keyword_____ is used to get some value back from a function.

Answer (Please select your correct option)

○ return

correct

○ break

○ continue

○ goto

Question No : 12 of 26

Identify the correct option which is used for calling the function float area (int).

Answer (Please select your correct option)

○ area(&num) ;

○ area(num) ;

○ area(int num) ;

correct

○ area(*num) ;

The _____ statement allows us to select from multiple choices based on a set of fixed values for a given expression.

Answer (Please select your correct option)

○ switch

correct

○ break

○ continue

○ goto

Question No : 14 of 26

C is widely known as development language of _____ operating system.

Answer (Please select your correct option)

○ Windows

○ Unix   <u>correct</u>

○ Mac OS

○ Linux

To convert the value of one type into another type using built-in functions, we include _____ header file.

Answer (Please select your correct option)

○ conio.h

○ stdlib.h   **correct**

○ iostream.h

○ string.h

Syntax of a union is identical to _____ .

Answer (Please select your correct option)

○ structure

correct

○ class

○ function

○ loop

Question No : 17 of 26

The function seekg() takes _____ parameter(s).

Answer (Please select your correct option)

○ 0

○ 1

○ 2   **correct**

○ 3

Question No : 18 of 26

The function write() takes _____ as parameter(s).

Answer (Please select your correct option)

○ String of pointer type

○ String of variable lengths, no. of bytes to be read and flags

○ Pointer array of characters and a delimiter

○ String and no. of bytes to be written   **correct**

Question No : 19 of 26

When the logical operator AND (&&) combines two expressions exp1 and exp2 then the result will be true only __

Answer (Please select your correct option)

○ When both exp1 and exp2 are true

correct

○ When both exp1 and exp2 are false

○ When exp1 is true and exp2 is false

○ When exp1 is false and exp2 is true

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Question No : 20 of 26

Null character is used to indicate the _____ of string.

Answer (Please select your correct option)

○ Start

○ End

correct

○ Begin

○ Middle

2 marks

Question No : 21 of 26

A two-dimensional array has 3 rows and 4 columns. Write down the syntax to initialize first element of all three rows of two-dimensional array with value 2.

2 marks

Question No : 22 of 26

Identify any logical or syntax error in the statement below and explain the reason of the error.

seekg (-10L, ios::beg);

3 marks

Question No : 23 of 26

Using the given array declaration:

int arr[] = {1, 2, 3, 4, 5, 6, 7, 8, 9};
int* arr_ptr = arr;

Find out the value of each of the expressions below.

Question No : 23 of 26

int* arr_ptr = arr;

Find out the value of each of the expressions below.

1. *(arr_ptr + 4)
2. (*arr_ptr)++
3. *(arr_ptr++)

3 marks

Question No : 24 of 26

If you are provided two methods for accessing a file; random and sequential. Which method will you prefer and why?

5 marks

Question No : 25 of 26

Following are two programming statements; you have to write down the functionality of each statement?

1) int *const intPtr = &x ;
2) const int *intPtr = &x ;

5 marks

Question No : 26 of 26

Find out errors in the program if any and after correction, write the output.

```
int main()
{
ofstream outfile;
long position;
```

Question No : 26 of 26

```
long position;
char outfilename[] = "abc.txt";
outfile.open(outfilename);
if(!outfile)
 {
  cout<<"Error Occured while opening a file";
```

Question No : 26 of 26

```
 cout<<"Error Occured while opening a file";
  exit(1);
 }
outfile.write("This is a car", 12);
position = outfile.tellp();
outfile.seekp(position-5);
outfile.write("jar", 3);
```

Question No : 26 of 26

```
position = outfile.tellp();
outfile.seekp(position-5);
outfile.write("jar", 3);
outfile.close();
return 0;
}
```

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