

CS201 MIDTERM PAST PAPER SCREEMSHOT

Question No : 1 of 26

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

Question No : 2 of 26

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

Question No : 3 of 26

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

☐ if-else

☐ else-if

correct

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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

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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

☐ iostream.h

correct

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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

☐ 2

☐ 1

correct

pat element

Question No : 7 of 26

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

Answer (Please select your correct option)

- ☐ reference
- ☐ data type
- ☐ value
- ☐ data
- correct

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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

☐ reliability

☐ sustainability

correct

Question No : 9 of 26

Word processor is a type of a/an _____.

Answer (Please select your correct option)

- ☐ operating system
- ☐ application software
- ☐ device driver
- ☐ utility software

correct

Question No : 10 of 26

'while' loop may execute _____ or more times.

Answer (Please select your correct option)

☐ three

☐ zero

☐ two

☐ one

correct

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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

pdfelement

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) ;

☐ area(*num) ;

correct

Question No : 13 of 26

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

pdfelement

Question No : 14 of 26

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

Answer (Please select your correct option)

☐ Windows

☐ Unix

☐ Mac OS

☐ Linux

correct

Question No : 15 of 26

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

☐ iostream.h

☐ string.h

correct

Question No : 16 of 26

Syntax of a union is identical to _____ :

Answer (Please select your correct option)

☐

structure

correct

☐

class

☐

function

☐

loop

pdf element

Question No : 17 of 26

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

Answer (Please select your correct option)

☐

0

☐

1

☐

2

☐

3

correct

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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

Question No : 20 of 26

Null character is used to indicate the _____ of string.

Answer (Please select your correct option)

☐ Start

☐ End

☐ Begin

☐ Middle

correct

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

```
        exit(1);
    }
    outfile.write("This is a car", 12);
    position = outfile.tellp();
    outfile.seekp(position-5);
    outfile.write("jar", 3);
```

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