MIDTERM EXAMINATION

Spring 20 CS201- Introduction to Programming

Question No: 1 (Marks: 1) - Please choose one

A precise sequence of steps to solve a problem is called

- **▶** Statement
- ► Program
- **▶** Utility
- ► Routine

Question No: 2 (Marks: 1) - Please choose one

The Compiler of C language is written in

- ▶ Java Language
- **►** UNIX
- ► FORTRON Language
- ► C Language

Question No: 3 (Marks: 1) - Please choose one

Initialization of variable at the time of definition is,

- ► Must
- ► Necessary
- ► Good Programming
- ► None of the given options

Question No: 4 (Marks: 1) - Please choose one

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In if structure the block of statements is executed only,

- ► When the condition is false
- ► When it contain arithmetic operators
- ► When it contain logical operators
- ► When the condition is true

Question No: 5 (Marks: 1) - Please choose one

Which of the following function(s) is/are included in **stdlib.h** header file?

- ► double atof(const char *nptr)
- ► int atoi(const char *nptr)
- ► char *strcpy (char *s1, const char *s2)
- ► 1 and 2 only

Question No: 6 (Marks: 1) - Please choose one

Dealing with structures and functions passing by reference is the most economical method

- ► True
- ▶ False

Question No: 7 (Marks: 1) - Please choose one

Pointer is a variable which store,

- ▶ Data
- ► Memory Address
- ► Data Type
- ▶ Values

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Question No: 8 (Marks: 1) - Please choose one

Preprocessor program perform its function before_____phase takes place.

- ► Editing
- ▶ Linking
- **▶** Compiling
- ► Loading

Question No: 9 (Marks: 1) - Please choose one

Which of the following can not be a variable name?

- ▶ area
- ► _area
- ► 10area
- ▶ area2

Question No: 10 (Marks: 1) - Please choose one

Which looping process is best, when the number of iterations is known?

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- ▶ for
- ▶ while
- ► do-while
- ▶ all looping processes require that the iterations be known

Question No: 11 (Marks: 1) - Please choose one

Which character is inserted at the end of string to indicate the end of string?

▶ new line

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► tab	
► null	
carriage retu	urn
Question No: 12	(Marks: 1) - Please choose one
How many bytes as char str[] = "prog	re occupied by declaring following array of characters? gramming";
▶ 10	
▶ 11	
▶ 12	
▶ 13	
Question No: 13	(Marks: 1) - Please choose one
Which of the follow	wing header file defines the rand() function?
➤ iostream.h	
► conio.h	
➤ stdlib.h	
► stdio.h	
Question No: 14	(Marks: 1) - Please choose one
Commenting the co	ode
► Makes a pro	ogram easy to understand for others.
► Make progr	rams heavy, i.e. more space is needed for executable.

► All of the given options.

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► Makes it difficult to compile

Question No: 15 (Marks: 1) - Please choose one

What's wrong with this for loop? for (int k = 2, k <= 12, k++)

- ► the increment should always be ++k
- ▶ the variable must always be the letter i when using a for loop
- ▶ there should be a semicolon at the end of the statement
- ▶ the commas should be semicolons

Question No: 16 (Marks: 1) - Please choose one

For which array, the size of the array should be one more than the number of elements in an array?



Question No: 17 (Marks: 1)

To Which category of the software "Compiler and Interpreter" belongs? System Software

Question No: 18 (Marks: 1)

What is the result of the expression x = 2 + 3 * 4 - 4 / 2

Question No: 19 (Marks: 2)

Write a declaration statement for an array of 10 elements of type float. Include an initialization statement of the first four elements to 1.0, 2.0, 3.0 and 4.0.

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Question No: 20 (Marks: 3)

Write down the output of the following code?

```
int array[7], sum = 0;
  for(int i=0;i<7;i++)
  {
    array[i] = i;
    sum+= array[i];
}
  cout<< "Sum = " << sum;</pre>
```

What will be the output of the following segment of C++ code?

```
int A[5] = {1, 2, 3, 4};
int i;
for (i=0; i<5; i++)
{
    A[i] = 2*A[i];
    cout << A[i] << " ";
}
```

Question No: 22 (Marks: 10)

Write a C++ program that will determine if a departmental store customer has exceeded the credit limit on a charge account.

Program should input the following facts in five variables

- 1. Account number
- 2. Balance at the beginning of month (Beginning balance)
- 3. total of all items charged by customer this month (charges)
- 4. total of all credits (credits)
- 5. allowed credit limit

Calculate the new balance

New balance = Beginning balance + charges - credits

Determine if **new balance** exceeds the **allowed credit limit**. For those customers whose credit limit is exceeded. The program should display the message "Credit Limit exceeded."

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Question No: 1 (Marks: 1) - Please choose one

In C/C++ the string constant is enclosed

- ► In curly braces
- ► In small braces
- ► In single quotes
- ► In double quotes

Question No: 2 (Marks: 1) - Please choose one

The size of int data type is

► 1 bytes

► 2 bytes

➤ 3 bytes

▶ 4 bytes

Question No: 3 (Marks: 1) - Please choose one

In Flow chart process is represented by

- ► Rectangle
- ► Arrow symbol
- ▶ Oval
- ➤ Circle

Question No: 4 (Marks: 1) - Please choose one

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If the break statement is missed in switch statement then,

- ► The compiler will give error
- ► This may cause a logical error
- ► No effect on program
- ► Program stops its execution

Question No: 5 (Marks: 1) - Please choose one

When we are using const keyword with a variable x then initializing it at the time of declaration is,

- ► Must
- ► Optional
- ► Not necessary
- ► A syntax error



Question No: 6 (Marks: 1) - Please choose one

Which of the following is the correct way to assign an integer value 5 to element of a matrix say 'm' at second row and third column?

- ightharpoonup m[2][3] = 5;
- ightharpoonup m[3][2] = 5;
- ► m[1][2] = 5;
- ► m[2][3] = '5';

Question No: 7 (Marks: 1) - Please choose one

How many total elements must be in two-dimensional array of 3 rows and 2 columns?

- **▶** 4
- **▶** 5
- **▶** 6
- **▶** 7

Question No: 8 (Marks: 1) - Please choose one

Which of the following is the correct statement for the following declaration?

const int *ptr.

▶ ptr is a constant pointer

ptr is constant integer pointer (Sorry format ► disable)

ptr is a constant pointer to ► int

ptr is a pointer to const ► int

Question No: 9 (Marks: 1) - Please choose one

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

int $arr[6] = \{2, 3, 7, 4, 5, 6\}$;

int *ptr1 =&arr[1];

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int *ptr2 = &arr[4]; cout << (ptr2-ptr1);

- **▶** 3
- **▶** 12
- **▶** 2

Question No: 10 (Marks: 1) - Please choose one

What will be the correct syntax to assign an array named arr of 5 elements to a pointer pdfelement ptr?

Question No: 11 (Marks: 1) - Please choose one

C is a/an ____language

low ▶ level

object based ▶object

oriented

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function oriented ▶

Question No: 12 (Marks: 1) - Please choose one

- .exe ▶
- .txt ▶
- .h ▶
- .c ▶

Question No: 13 (Marks: 1) - Please choose one

The variables having a name, type and size are just like empty boxes.

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False ▶

True ▶

Question No: 14 (Marks: 1) - Please choose one

What's wrong with this for loop?

for (int
$$k = 2$$
, $k <= 12$, $k++$)

- lacktriangle the increment should always be ++k
- ▶ the variable must always be the letter i when using a for loop
- ▶ there should be a semicolon at the end of the statement
- ▶ the commas should be semicolons

Question No: 15 (Marks: 1) - Please choose one

Most efficient method of dealing with structure variables is to define the structure globally

- ► True
- False ▶

Question No: 16 (Marks: 1) - Please choose one

Syntax of union is identical to _____

- ► Structure
- ► Class
- **▶** Function
- ► None of the given options

Question No: 17 (Marks: 1)

Suppose 'z' is a variable of type int. What will be the result of x = 27/4:

Question No: 18 (Marks: 1)

Give the general syntax of definition of structure.

Question No: 19 (Marks: 2)

Consider the structure

struct Customer

```
{
int custnum;
int salary;
float commission;
};
```

A programmer wants to assign 2000 for the structure member salary in the above example of structure Customer with structure variable cust1 What line of code should he write

Question No: 20 (Marks: 3)

What is compiler?

Question No: 21 (Marks: 5)

What is the difference between while and for loop?

Question No: 22 (Marks: 10)

Write a void function(); that takes integer numbers from the user and then displays the sum of odd and even numbers entered by the user. Your program should terminate if user enters a negative number

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