C programming test 5:

1.Strings are character arrays. The last index of it contains the null-terminated character

a. \t

b. \1

c. \0

d. \n

2.

What is the output of the following code statements? The compiler saves the first integer at the memory location 4165 and the rest at consecutive memory spaces in order of declaration. Integer is one byte long.

integer a

pointer c, d

a = 30c = &a

c = &a

d = c

a = a + 10

print \*c

a)30 b)4165 c)40 d)4166

3. A data type is stored as a 6 bit signed integer. Which of the following cannot be represented by this data type?

a)`12 b)4 c)32d)6

4.

A 10-bit unsigned integer has the following range:

a)0 to 1000b)0 to 1024 c)0 to 1023 d)0 to 1025

5. Consider the following function

function calculate( n )

{

if(n equals 5)

return 5

else

return (n + calculate(n-5))

end

}

Shishir calls the function by the statement, calculate(20). What value will the function return

a)50 b)200 c)64d)56

6.

Choose the correct answer

function g(int n)

{

if (n > 0) return 1;

else return -1;

}

function f(int a, int b)

{

if (a > b) return g(b-a);

if (a < b) return g(a-b);

return 0;

}

If f(a,b) is called, what is returned?

a)always -1 b)0 if equals b,otherwise -1 c) -1 if equals b,otherwise -1 d) 0 if equals b,otherwise 0

7. Choose the correct answer

Afzal writes a piece of code, where a set of three lines occur around 10 times in different parts of the program. What programming concept can he use to shorten his program code length?

a)use arrays b)use pointers c)use structures d)use functions

8.

Talika wants to implement heterogeneous linked list for her project. Which of the following will help her do the same.

a)null pointer b)dangling pointer c)double pointer d)void pointers

9. fputs adds newline character

a) True

b) False

c) Depends on the standard

d) Undefined behavior

10.

. A sorting algorithm which can prove to be a best time algorithm in one case and a worst time algorithm in worst case is

(a) Quick Sort

(b) Heap Sort

(c) Merge Sort

(d) Insert Sor

Answers:

a)c b)c c) c d) c 5)a 6)b 7)d 8)d 9)b 10)a