1.

```
#include<stdio.h>
int something(int number)
{
        if(number <= 0)
                return 1;
        else
                return number * something(number-1);
}
void main()
{
        printf("%d", something(4));
}
```

- ○ 22
- ◉ 24
- ○ 10
- ○ 13

2. What is the output of C Program with functions.?

```
#include
int sum(int,int);
int main()
{
    int a=5, b=10, mysum;
    mysum = sum(a,b);
    printf("SUM=%d ", mysum);
    printf("SUM=%d", sum(10,20));
    return 0;
}
int sum(int i, int j)
{
    return (i+j);
}
```

- ◉ SUM=15 SUM=30
- ○ SUM=15 SUM=15
- ○ SUM=30 SUM=30
- ○ SUM=30 SUM=15

3. What will be the output of the following pseudo code?

For input a=8 & b=9.

Function(input a, input b)

If(a<b)

return function(b,a)

elseif(b!=0)

return (a+fuction(a,b-1))

else

return 0

○ 56
○ 88
◉ 72
○ 65

4. **What will be the output of the following pseudocode?**
    input n = 1234
    integer q, r and rn
    set q = n and rn = 0
    while(q>0)
    r = q mod 10
    rn = rn + r ^ 3
    q = q/10
    end while loop
    print rn

    ◉ 100
    ○ 36
    ○ 321
    ○ 10

5. **What will be the output of the following code, for a = 8 & b = 9?**
    Function(input a, input b)
    If(a < b)
    return function(b, a)
    elseif(b != 0)
    return (a + function(a,b-1))
    else
    return 0

    ○ 75
    ○ 68
    ○ 70
    ◉ 72

6. **What will be the output of the following pseudo code for x=3 and y=4?**
    integer fun(int x, int y)
    if(x>0)
    fun(x-1,y+1);
    End if
    Print y
    End function fun()

    ◉ 7 6 5 4
    ○ 8 5 4 2
    ○ 5 2 1 4

○ 2 0 3 4

7. **What will be the output of the following pseudo-code if n=40 and LIMIT=100 ?**

Integer fun2(Integer n);
if(n <+ 0)
   return 1;
if(n > LIMIT)
   return 2;
Print n
fun2(2*n);
Print n
End function fun2()

◉ 40 80 80 40

○ 80 120 120 80

○ 10 20 20 10

○ 20 40 40 20

8. **What will be the values of t if a=56 , b=876?**
read a,b
function mul(a,b)
   t=0
   while (b!=0)
      t=t+a
      b=b-1
   end while
   return t;
end function

○ 490561

○ 490563

○ 490562

◉ 49056

9. **What will be the output of the following pseudocode for i=140?**
Integer fun(integer i)
if((i MOD 2) NOT EQUALS 0)
   Return i
Else
   Return fun(fun(i-1))
End function fun()

○ 138

○ None

◉ 139

○ 140

10. Consider the following pseudocode.

Function (input n)
{
  If (n<2)
    Return n;
  Else return function(n-1) + function (n - 2)
}

- ○ 0 1 2 3
- ○ 2 4 6 8
- ● 0 1 1 2
- ○ 1 3 5 7