1.	What will be the output of the following pseudocode? 1. String str1 = "Qoq", str2 = "OqO" 2. Print (countVowel(lower(lower(str1)+lower(str2)+lower(str1))))
	[Note: countVowel(string) returns the numbers of vowels in the string, e.g., countVowel("okay") returns 2.
	lower(string) converts all the letters of the strings to lower case, e.g., lower("OKaY") returns "okay".]
	\bigcirc 0
	4
	\bigcirc 12
	\bigcirc 7
2.	What will be the output of the following pseudocode? 1. String str1 = "Mn", str2 = "nNm" 2. Print isPalin(lower(str1+str2))
	[Note: isPalin(string) returns 1 if the string is a palindrome, otherwise returns 0, e.g., isPalin("yyy") returns 1. lower(string) converts all the letters of the strings to lower case, e.g., lower("OKaY") returns "okay".]
	O -1
	○ 6
	○ 11
	1
3.	What wil be the output of the following pseudocode?
	Integer a, b, c
	Set a = 4, b = 9, C = 9
	if (b & (c >> 1)) a=a +1
	End if
	Print a + b + c
	② 23
	○ 35
	○ 29
	○ 45
4.	What will be the output of the following pseudocode? Integer a, b, c
	Set a = 5,b = 5, C = 9 if (b 8 (c >> 1) b 8 (c << 1))
	if (b & (c >> 1) b & (c << 1))

a=a+1

End iF		
Print a+b+c		
	② 20	
	○ 25	
	○ 40	
	○ 10	
5.	What will be the output of the following pseudocode? Integer a, b, c Set a = 108, b = 2, c = 3 if((a MOD 9) EQUALS 0) b = b + (a MOD 2) Print b Else c = c + (a MOD 7) Print c end if [Note: MOD finds the remainder after the division of one number by another. For example, 5%2 leaves a quotient of 2 and a remainder of 1] ② 2 7 1 3	
6.	For which of the following values of 'a', the statement under 'if' will execute? Integer a if(a mod 10 >= 5 OR a mod 10 equals 3 AND a/100 equals 100) print a mod 10 + a/100 else print a end if [Note: MOD finds the remainder after the division of one number by another. For example, 5%2 leaves a quotient of 2 and a remainder of 1 Logical AND - The logical AND operator (&&) returns Boolean value true(or 1) if both operands are true, returns false(or 0) otherwise Logical OR - The logical OR operator (!!) returns Boolean value true(or 1) if at least one operand is true, returns false(or 0) otherwise.] 123 555 111 121	
7.	What is the output of the following pseudocode?	

Integer b = 10, a = 1

```
if(0)
  a = a - 1
Else
  a = b + 1
  b = a - 1
  a = a - 1
End if
Print a
[Note: If(x) gets executed if the value inside if(), i.e., x is not zero]
        \bigcirc 3
        5
        10
        \bigcirc 11
8.
     What will be the output of the following pseudocode?
     Integer a, b, c
     Set b = 40, a = 20, c = 20
     if (c > (c + a))
        b = 0
     Else
        a = a + 2
        c = a + 2
     End if
     if (c > (b + a))
       b = 0
     Else
        a = a + 2
       c = a + 2
     End if
     Print a + b + c
        \bigcirc 60
        \bigcirc 30
        90
        ○ 39
9.
     What will be the output of the following pseudocode?
     Integer a, b
     Set a = 3, b = 5
     if (a & (b + 1))
        a = a + a
     End if
     Print a + b
        11
        \bigcirc 30
```

```
\bigcirc 8
        \bigcirc 7
10. What will be the output the following pseudocode?
     int i=5, j=7
     if(i+j>5)
       j=i+2
       if (j<5)
          print i
       else
          print j
     else
       print i+1
        \bigcirc 12
        \bigcirc 5
        7
        \bigcirc 6
11. Predict the output of the following pseudo-code. Let's consider
     input is 3
     Integer i, i, k,n
     Repeat for i:=1 to n
       Repeat for k:=i to less than n
       print space
       Repeat for j:=1 to 2*i-1
       print star
     End loop
        ****
        O ****
         ***
        O ***
         **
12. What will be the output of the following pseudo-code?
         Integer a, b
         Set a = 6, b = 8
         a = a + b
         b = a - b
```

```
a = a - b
   a = a + 6
   print a, b
        \bigcirc 6 8
        6 14
        14 6
        \bigcirc 86
13. What will be the output of the following pseudocode?
     Input is 4
     Integer i, j, n
     Repeat for i: =1 to n
       Repeat for j: =1 to i
          print i
     End loop
        \bigcirc i
        ii
        iii
        iiii
        \bigcirc 1
        12
        123
        1234
        \bigcirc iiii
        iii
        ii
        1
        22
        333
        4444
14. What is the output of the following pseudocode?
     Integer end, beg, n
     Set beg = 5, end = 7, sum = 0
     if (beg > end)
       print sum+1
       for( n = end; n \ge beg; n=n-1)
          sum = sum + n
       end for loop
     endif
     print n
        \bigcirc 6
        Q 4
```

```
\bigcirc 9
15. What is the output of the following pseudocode?
    Input n is 4
    Integer i, j, n, Num = 1
    Repeat for i: =1 to n
       Repeat for j: =1 to i
         print Num
         Increment Num by 1
    End loop
       O Num
       NumNum
       NumNumNum
       NumNumNumNum
       \bigcirc 1
       22
       333
       4444
       \bigcirc 1
       12
       123
       1234
       1
       23
       456
       78910
16. ch = 'b';
    while(ch >= 'a' && ch <= 'z')
    How many times the following loop be executed?
       \bigcirc 0
       25
       \bigcirc 1
       26
17. What will be the output of the following pseudocode for n = 2?
    int fun(int n)
    if(n EQUALS 4)
       return n
    else
       return 2 * fun(n+1)
       \bigcirc 2
       16
```

 \bigcirc 7

	○8
	\bigcirc 4
18.	What will be the output of the following pseudocode for a = 6? Integer fun(integer a) if(a EQUALS 0) return a + 9 else return fun(a-1) End function fun()
	○ 6
	\bigcirc 0
	◎ 9
	\bigcirc 1