1. What will be the output of the following pseudocode?		
Integer a, b, c		
	Set a = 4, b = 4, c = 5	
	if((c + a + b) < (8 - c))	
	c = (a + a) + b	
	a = a + C	
	a = b + b	
	End if	
	Print a + b + c	
	<b>0</b> 13	
	$\bigcirc$ 14	
	○ <b>022</b>	
	○ 06	
2.	What will be the output of the following pseudocode?	
	1. Integer a, b, c	
	2. Set a = 3, b = 5, c = 6	
	3. if((c&a) <a (b^c)<c)<="" th=""   =""></a>	
	4.   c = (a+b)&b	
	5. End if	
	6. Print a+b+c	
	[Note- &: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to	
	the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is	
	set to 1. Otherwise, the corresponding result bit is set to 0.	
	^ is the bitwise exclusive OR operator that compares each bit of its first operand to the	
	corresponding bits of its second operand. If one bit is 0 and the other bit is 1, the corresponding	
	result bit is set to 1. Otherwise, the corresponding result bit is set to 0.]	
	$\bigcirc$ 14	
	<ul><li>8</li></ul>	
	○ <b>-10</b>	
	○ 18	
3.	What will be the output of the following pseudocode?	
	1. Integer pp, qq, rr	
	2. Set pp = 7, qq = 9, rr = 13	
	3. $pp = (qq + 11) + qq$	
	4. qq = rr	
	5. if((qq - pp) < (pp - qq) OR pp > rr)	
	6. rr = rr	
	7. End if	
	8. Print pp + qq + rr	
	● 55	

○ 54

	○ 57
4.	What will be the output of the following pseudocode?
	1. Integer a, b, c
	2. Set a = 2, b = 4, c = 9
	3. if((5^a^b) < (3+b+c))
	4. $c = (a+c)+b$
	5. c = a
	6. End if
	7. Print a + b + c
	[Note: ^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bits of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.]
	$\bigcirc$ 11
	○ <b>17</b>
	<b>◎</b> 8
	○ 5
5.	What will be the output of the following pseudocode?
	1. Integer a, b
	2. Set a = 3, b = 3
	3. a = a + a
	4. b = b + b
	5. if(0 > 1)
	6. a = 0
	7. Else 8. b = -11
	8. b = -11 9. End if
	10. Print 11 + a + b + 12
	10. FIIIIC 11 · a · b · 12
	○ 6
	○ 29
	○ <b>19</b>
	<b>◎</b> 18
6.	What will be the output of the following pseudocode?
5.	1. Integer a, b, c
	2. Set a = 4, b = 9, c = 9
	3. if(b & (c >> 1))
	4. a = a + 1
	5. End if

6. Print a + b + c

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[Note: >> - Bitwise right shift operator, it takes two numbers, right shifts the bits of the first operand, and the second operand decides the number of places to shift.

&: I	oitwise AND	- The bitwise AND operator (&) compares each bit of the first operand to the					
corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to							
1. Otherwise, the corresponding result bit is set to 0.							
If(x) gets executed if the value inside if(), i.e., x is not zero.]							
	<b>0</b> 5						
	<b>0</b> 41						
	<b>22</b>						
	O <b>25</b>						
7.	What will I	be the output of the following pseudocode?					
		ger a, b, c					
	2. Set	a = 5, b = 5, c = 9					
	3. if(b	& (c >> 1)    b & (c << 1))					
	4.	a = a + 1					
	5. End	if					
	6. Prin	ta+b+c					
	[Note: >> -	Bitwise right shift operator, it takes two numbers, right shifts the bits of the first					
	_	he second operand decides the number of places to shift.					
	•	hift operator, it takes two numbers, left shifts the bits of the first operand, the second					
		ecides the number of places to shift.					
	-	AND - The bitwise AND operator (&) compares each bit of the first operand to the					
		ding bit of the second operand. If both bits are 1, the corresponding result bit is set to					
	-	se, the corresponding result bit is set to 0.					
		OR - The logical OR operator (  ) returns the Boolean value TRUE (or 1) if either or					
	•	ands are true and return FALSE (or 0) otherwise.					
	-	executed if the value inside if(), i.e., x is not zero.]					
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	O 25						
	○ 39						
	<b>2</b> 0						
	O 17						
	<b>U</b> 17						
8.	What will I	be the output of the following pseudocode for a = 9, b = 2?					
0.		ger funn(Integer a, Integer b)					
	2.	if(a > b)					
	2. 3.	if(a < 2)					
	3. 4.	if(a < 3)					
	<del>4.</del> 5.	if(a < 4)					
	5. 6.	return b					
	7.	End if					
	7. 8.	return b - 1					
	9.	End if					
	10. 11.	return 2 End if					
	11. 12.	return 4					
	13.	End if					

```
14.
              return 1
  15. End function funn()
        \bigcirc 1
        \bigcirc 8
        \bigcirc 6
        4
9.
     What would be the output of the following pseudocode?
     Integer i, j, k
     Set k = 8
     for(each i from 1 to 1)
       for(each j from the value of i to 1)
          print k+1
       end for
     end for
        \bigcirc 2
        9
        \bigcirc 7
        \bigcirc 8
10. What will be the output of the following pseudocode?
     Integer a, b, c, d
     set d = 6
     for(each a from 1 to 2)
       for(each b from a to 2)
          for(each c from b to 2)
            print d
          end for
       end for
     end for
        0666666
        \bigcirc 6 6
        \bigcirc 6 6 6
        06666
11. What will be the output of the following pseudocode?
     Integer a
     String str1
     Set str1 = "momo"
     for (each a from 1 to 2)
       str1 = str1 + "mm"
     End for
     Print (stringLength(str1))
     [Note: stringLength(): stringLength() functions counts the number of characters)
```

```
\bigcirc 4
       \bigcirc 6
       8
12. What will be the output of the following pseudocode?
     Integer a
     Set a = 10
     while(a NOT EQUALS a/2)
       print "engineering"
       a = a - 1
       if(a EQUALS 3)
         Print "engineering"
       end if
       jump out of the loop
       Print "engineering"
     end while
     if(a EQUALS 2)
       print "23"
     else
       print "engineering"
     end if
       Olt will print engineering 3 times
       It will print engineering 2 times
       Olt will print engineering 4 times
       Olt will print 23
13. Which of the following series will be printed by the given pseudocode?
     Integer i, j, k, n
     Set j = 1, k = 1
     for(each i from 1 to 5)
       print k
       j=j+1
       k=k+j
    end for
       O 2 4 6 8 10
       1 3 6 10 15
       \bigcirc 1 2 3 4 5
       \bigcirc 1 1 2 3 5
14. What is the output of the following pseudocode?
     Integer a, b, c
     Set b = 2, a = 1
     for(each c from 1 to 2)
```

 $\bigcirc$  7

```
a = a*c
  b = b*c
End for
if ((1 & 4) || (1 ^ 1) || (2 ^ 3))
  b = a - 1
  a = a - 1
Else
  a = a ^ 1
  b = b^1
End if
print a + b + c
        \bigcirc 1
        \bigcirc 6
        o 5
        \bigcirc 7
15. What will be the output of the following pseudocode?
     Integer a, b, c
     Set b = 10, a = 1
     for(each c form 1 to 2)
       a = (a+c) * c
       b = b - c
     End for
     if (0)
       b = a - 1
       a = a - 1
       a = b + 1
     Else
       a = b + 1
       b = a - 1
       a = a - 1
     End if
     Print a + b + c
        \bigcirc 20
        25
        \bigcirc 10
        17
16. How many times the following pseudocode will print "btech"?
     Integer a, b
     for(each a from 0 to 3)
       for(each b from 0 to a)
          print "btech"
       end for
     end for
```

○ 8 times					
	○ 9 times				
	10 times				
	○ 11 time	es ·			
17.	What will be	the output of the following pseudocode for a = 2, b = 8?			
	_	r funn(Integer a, Integer b)			
	2.	if(a)			
	3.	return a +funn(a - 1, b + 1)			
	4.	Else			
	5.	return a + b			
	6.	End if			
	7. End tu	inction funn()			
	[Note: If(x) g	ets executed if the value inside if(), i.e., x is not zero.]			
	<b>13</b>				
	$\bigcirc$ 10				
	<b>23</b>				
	○ 19				
18.	What will be	the output of the following pseudocode for a = 3, b = 0?			
		r funn(Integer a, Integer b)			
	2. if(b)				
	3.	return 1			
	4. Else				
	5.	return funn(a+2, b+1)			
	6. End if 7. return				
	7. return 8. End fu				
	[Note: If(x) g	ets executed if the value inside if(), i.e., x is not zero]			
	<b>14</b>				
	○ 18				
	<b>4</b>				
	<b>0</b> 1				