1.	What will be the output of the following pseudocode?
	1. Integer a, b, c, d
	2. Set a = 10, b = 20, c = 30, d = 40
	3. a = b * a
	4. b = d - c
	5. c = b * 2
	6. a = a ^ c
	7. b = b - 2
	8. b = b << 1
	9. $c = (c \& a) + (a << 1)$
	10. if(c > 5 b < 10)
	11. d = a + b + c - 5
	12. end if
	13. d = d + a
	14. Print d
	[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 left shift operator, it takes two numbers, left shifts the bits of the first operand, the second
	operand decides the number of places to shift.
	: Logical OR - The logical OR operator () returns the Boolean value TRUE (or 1) if either or
	both operands are true and return FALSE (or 0) otherwise.
	^ 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.]
	result bit is set to 1. Otherwise, the corresponding result bit is set to 0.]
	○ 927
	○ 665
	911
	○ 129
2.	What will be the output of the following pseudocode?
	1. Integer a, b, c
	2. Set a = 2, b = 40, c = 0
	3. $b = c + 2$
	4. if(a)
	5. c = 1
	6. End if
	7. Print a - b + c
	[Note: If(x) gets executed if the value inside if(), i.e., x is not zero.]
	\bigcirc 4
	◎ 1

-2

 \bigcirc 11

3.	What w	vill be the output of the following pseudocode?
	1. I	nteger a, b, c
	2. 9	Set a = 4, b = 1, c = 2
	3. i	f(b ^ (c & a) && a ^ (c & b))
	4.	c = a + a
	5.	a = c + c
	6. E	Else
	7.	c = b + b
	8.	b = c + c
	9. E	End if
	10.	Print a + b + c
	[Note-8	&: Logical AND - The logical AND operator (&

[Note-&&: Logical AND - The logical AND operator (&&) returns the Boolean value true (or 1) if both operands are true and return false (or 0) otherwise.

&: 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.

If(x) gets executed if the value inside if(), i.e., x is not zero.]

	_	_
()	7	7

4. What will be the output of the following pseudocode?

```
1. Integer a, b, c
```

2. Set
$$a = 10$$
, $b = 1$, $c = 2$

4.
$$c = c^a$$

5.
$$a = 0$$

6. Else

7.
$$c = 0$$

8.
$$a = 2$$

9. End if

10. Print
$$a + b + c$$

[Note-&&: Logical AND - The logical AND operator (&&) returns the Boolean value true (or 1) if both operands are true and return false (or 0) otherwise.

<< is left shift operator, it takes two numbers, left shifts the bits of the first operand, the second operand decides the number of places to shift.

&: 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

^{○ 34}

 $[\]bigcirc$ 31

	gets executed if the value inside if(), i.e., x is not zero.]	
	◎ 3	
	○ 21	
	O1	
	○ 1 ○ 11	
5.	What will be the output of the following pseudocode?	
	1. Integer a, b, c	
	2. Set a = 1, b = 4, c = 2	
	3. if(1 && 1)	
	4. c = (a & b) + (a ^ b)	
	5. if(c)	
	6. c = a	
	7. End if	
	8. End if	
	9. Print c + a + b	
	[Note-&&: Logical AND - The logical AND operator (&&) returns the Boolean value true (or 1) if both operands are true and return false (or 0) otherwise. &: 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. If(x) gets executed if the value inside if(), i.e., x is not zero.]	
	O 7	
	○ 8	
	○ 5	
6.	What will be the output of the following pseudocode? 1. Integer a, b 2. Set a = 3, b = 3 3. a = b 4. b = a 5. if(2 ^ 1 ^ 3) 6.	
	8. b = b - 1 9. End if	
	V. Eliu II	

[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

10. Print a + b

resu	It bit is set to 1. Otherwise, the corresponding result bit is set to 0.
lf(x)	gets executed if the value inside if(), i.e., x is not zero.]
	7
	● 5
	○ 6
	04
7.	What will be the output of the following pseudocode?
	1. Integer a, b , c
	2. Set a = 1, b = 2, c = 5
	3. if(a mod 1 && a^1)
	4. $b = b - c$
	5. End if
	6. if(a mod 1 1&a)
	7. $c = c + a$
	8. End if
	9. Print a + b + c
	[Note-&&: Logical AND - The logical AND operator (&&) returns the Boolean value true (or 1) if both operands are true and return false (or 0) otherwise. : Logical OR - The logical OR operator () returns the Boolean value TRUE (or 1) if either or both operands are true and return FALSE (or 0) otherwise. mod finds the remainder after the division of one number by another. for example, the "5 mod 2" would evaluate to 1 because 5 divided by 2 leaves a quotient of 2 and a remainder of 1. &: 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. If(x) gets executed if the value inside if(), i.e., x is not zero.]
	○ 19
	● 9
	O 13
	○ 8
8.	What will be the output of the following pseudocode? 1. Integer a, b, c 2. Set a = 2, b = 4, c = 2 3. b = a + 1

5. c = b + 16. if(a + 2)

8. 9.

7. if(b + 2)

End if

a = b + 2

10. b = c + 211. if(c + 5)12. a = b + 2End if 13. 14. End if 15. Print a + b + c [Note: If(x) gets executed if the value inside if(), i.e., x is not zero.] **18** \bigcirc 13 \bigcirc 22 \bigcirc 26 What will be the output of the following pseudocode? Integer pp, qq, rr Set pp = 3, qq = 10, rr = 13for(each rr from 5 to 6) pp = (9 + 11) + rrEnd for for(each rr from 2 to 3) pp = (pp & qq) + ppEnd for Print pp + qq [Note- &: bitwise AND-The bitwise AND operator (&) compares each bit of the first opera corresponding bit of the second operand. If both bits are 1, the corresponding result bit i Otherwise, the corresponding result bit is set to 0.] \bigcirc 041 **Q** 46 **054** O 52 10. What will be the output of the following pseudocode? Integer pp, qq, rr Set pp=3, qq=11, rr=15 for(each rr from 4 to 8) $qq = rr ^ qq$ **End for** for(each rr from 2 to 4) qq = rr + qq**End for** Print pp + qq [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 21

	○ 34
	○ 10
	15
11.	What will be the out of the following pseudocode?
	Integer p, q, r
	Set p = 3, q = 8, r = 4
	for(each r from 5 to 9)
	$q = (q + q) ^ r$
	$if(q$
	q=(q+q)+q
	End if
	End for
	Print p + q
	[Note is the bitwise exclusive OR operator that compares each bit of its first corresponding bit of
	its second operand.
	If one bit is 0 and the other bit is 1, t result bit is set to 1. Otherwise, the corresponding result bit
	is set to 0]
	○ 362
	③ 360
	○ 358
	○ 368
12.	What will be the output of the following pseudocode?
	Integer a, b, c
	Set a = 2, b = 7, c = 5
	for(each c from 3 to 6)
	b = c + b
	if(b + c - a) < (a + b))
	b = 6 + a
	End if
	End for
	Print a + b
	○ 31
	○ 36
	25
	○ 18
13.	What will be the output of the following pseudocode?
	Integer a, b
	Set b = 320
	for (a = 1 to 3)
	h = h / 10

a = a + b + 5

end for Print a ○ 328 \bigcirc 13 **26 39** 14. What will be the output of the following pseudocode? 1. Integer n, beg, end 2. Set beg = 5, end = 7, sum = 03. if(beg > end)4. Print sum + 1 5. else 6. for(n = end; n >= beg; n=n-1) 7. sum = sum + n8. n = n - 19. **End for loop** 10. Print n **3** \bigcirc 7 \bigcirc 6 \bigcirc 9 15. What will be the output of the following pseudocode? 1. Integer num, x, y, count 2. Set num = 85, count = 03. x = num << 14. y = x ^ num 5. y = y + 16. while((y / 2) NOT EQUALS 0) 7. if(y MOD 2 NOT EQUALS 0) 8. count = count + 19. else 10. y = y / 211. end if 12. end while 13. if(count) Print "0" 14. 15. Print y 16. Else 17. Print "1" 18. Print x 19. end if **01125**

	O None of the mentioned options
	○ 0 170
	1 170
16.	What will be the output of the following pseudocode for n = 5?
	1. Integer i, j, n
	2. Read n
	3. for(each i from 1 to n)
	4. for(each j from 1 to i)
	5. Print i
	6. End for
	7. Go to New line
	8. End for
	• 122333444455555
	○ 123456789101112131415
	○ 123436769101112131413 ○ 112123123412345
	O None of the mentioned options
17.	What would be the output of the following pseudocode for a=2, b=3? doSomthing (integer a, integer b) If (b EQUALS 1) return 0
	else
	return a + doSomething(a, b-1)
	End function doSomething()
	0 4
	② 2
	\bigcirc 3
	\bigcirc 1
18.	What will be the output of the following pseudocode for input =5?
	Integer fun(integer n)
	If (n IS EQUAL TO 0)
	return 0
	otherwise if (n is equal to 1)
	return 1
	otherwise
	return (n * n + fun(n-2))
	End function fun()
	③ 35
	○ 40
	○ 45
	○ 25