1.	What will be the output of the following program? Set					
	Character array c = {'A', 'B', 'C', 'D'} Set Character result = c[1]+31 display result					
	○ c					
	○ 97					
	\bigcirc b					
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					
	O 11					
	◎ 1					
3.	What will be the output of the following pseudocode?					
	1. Integer p, q, r					
	2. Set p = 0, q = 8, r = 5					
	3. q = (q+6)&r 4. r = (q+p)+p					
	5. p = (9+8)^r					
	6. Print p+q+r					
	[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.]					
	© 29					
	○ 30					
	○ 36					
	○ 25					

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What will be the output of the following pseudocode?
Integer a=5, b=4, c=3
a = b + c
c = a - b
c = c + a
b = b + c
Print a, b, c
        31
        25
        ○ 35
        \bigcirc 42
5.
    What will be the output of the following pseudocode for a = 1, b = 1?
     Integer funn (Integer a, Integer b)
     a = b - ((a+b+a) - (a-b-a))
     b = a - ((a+b+a)-(a-b-a))
     return 100 + a + b
     End function funn()
        0 109
        99
        0105
        \bigcirc 110
     What will be the output of the following pseudocode?
     input m=9,n=6
     m=m+1
     n=n-1
     m=m+n
     if(m>n)
       print m
     else
       print n
        \bigcirc 10
        \bigcirc 6
        \bigcirc 5
        15
7.
     What will be the value of val if the input is 1, 2, 3, 9, 4 corresponding to n1 to n5?
     If(n1 < n2)
     Set val to n2
     Else
     Set val to n1
     If(n3 > val)
```

If(n4 Set If(n4	val to n3 4 > val) val to n4 5 > val) val to n5 9 3 2 1
8.	What will be the output of the following Pseudocode? int a=9, b=7, c=8, d=4, e e = a + b + c + d / 4 if (e > 5) print "PASS" else print "FAIL" FAIL O O O PASS
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 [Note: If(x) gets executed if the value inside if(), i.e., x is not zero &: 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 corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0] 11 30 8 7
10.	Consider the following pseudocode: What would be the output of this program if the input is 9? START Integer NumHours, Regular, Overtime, PayAmount, RegPay, OverPay GET NumHours SET Regular = 8

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SET RegPay = 10
SET OverPay = 5
SET Overtime = NumHours - Regular
IF(Overtime>0)
  THEN
SET PayAmount = (Regular * RegPay) + (Overtime * OverPay)
SET PayAmount = NumHours * RegPay
END IF
Print 'The amount to be paid is: ', PayAmount
END
       O The amount to be paid is: 90
       O The amount to be paid is: 95
       O The amount to be paid is: 80
       The amount to be paid is: 85
11. Predict the output.
    a = 1
    b = 2
    c = 3
    d = 4
    e = 5
    f = 6
    n = 1
    repeat until(n <= 5) {
       a = a + n
       b = b + n
      c = c + n
      d = d + n
       e = e + n
      f = f + n
      print(f)
       n = n + 1
    }
       O 9 11 14 18 23
       0 7 9 12 16 21
       O 10 12 15 19 24
       0 8 10 13 17 22
12. What is the output of this code?
    a = 5
    b = 10
    n = 1
    Repeat until(n < 5):
       c = a + b
```

```
a = b
  b = c
  print(c)
  n = n + 1
        15 30 45 60
        15 25 40 65
        15 20 25 30
        15 30 60 120
13. What is the output of the following code?
     n = 1
     x = 10
     y = 10
     z = 10
     sum = 0
     i = 0
     Repeat till(i <= n) {
       sum = (x + y + z) * (x - y - z)
       i = i + 1
     }
     print(sum)
        29
        O -300
        \bigcirc 30
        \bigcirc 31
14. What is the output for the following code?
     num = 1
     Repeat till(num <= 15) {
       num = num + 1
     }
     Print(num)
        \bigcirc 1
        \bigcirc 14
        \bigcirc 15
        16
15. What will be the output of this code?
     i = 1
     repeat until i+7<=8 {
       i = i + 1
     }
     print(i+6)
```

```
8
        \bigcirc 1111111
        \bigcirc 9
        \bigcirc 1
16. What is the output of this code?
     a = 1
     b = 2
     c = 3
     d = 4
     n = 1
     Repeat until(n <= 5):
       c = a * c
       d = a * d
       print(c)
       n = n + 1
        \bigcirc1111
        \bigcirc 2 2 2 2
        3333
        \bigcirc 4 4 4 4
17. 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
        \bigcirc 10
18. 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			
0 72			