1. What will be the output of the following pseudocode? Integer a,b,c Set a=5, b= 10, c = 10 c = a $a = (a ^ a) + b$ b = (b & 3) + cprint a + b + c \bigcirc 33 \bigcirc 17 \bigcirc 26 **22** 2. What will be the output of the following pseudocode? Integer a,b,c Set a=5, b=3, c=12 a=5+a if (4 + 4) ^ c a=6&c end if print a+b+c **19 25** ○ 35 \bigcirc 4 3. What will be the output of the following pseudocode? 1. Integer a = 5, b = 4, c = 32. a = b + c3. c = a - b4. c = c + a5. b = b + c6. Print a, b, c **0** 7 14 10 **7 14 7 7 12 14 7 14 18** What will be the output of the following pseudocode? 1. Integer a, b, c 2. Set a = 5, b = 10, c = 103. c = a4. $a = (a ^ a) + b$

5. b = (b & 3) + c

	6. Print a + b + c
the set ^ is cor	te- &: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to corresponding bit of the second operand. If both bits are 1, the corresponding result bit is to 1. Otherwise, the corresponding result bit is set to 0. In the bitwise exclusive OR operator that compares each bit of its first operand to the responding bits of its second operand. If one bit is 0 and the other bit is 1, the corresponding ult bit is set to 1. Otherwise, the corresponding result bit is set to 0.]
	○ 17
	◎ 22
	○ 26
	○ 33
5.	What will be the output of the following pseudocode? 1. String str1 = "Qoq", str2 = "OqO" 2. Print (countVowel(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
	○ 12
	○ 7
6.	What will be the output when following program is executed? Set copper_percentage = 100 Set UNS = 66099
	if(copper_percentage < 90 and UNS > 70000 and UNS < 79999) then display "Cast"
	end-if if(copper_percentage >= 90 and UNS > 64700 and UNS < 70000) then display "Wrought" end-if
	if(copper_percentage > 90 and UNS > 66999 and UNS < 70000) then display "Rod" end-if
	○ Cast
	Wrought
	○ Error
7.	What will be the output of the following pseudocode?

Set length = 5 Set breadth = 7

```
Set area = length * breadth
Set perimeter = 2 * (length + breadth)
if area > perimeter then
display "Area is greater than perimeter."
else
display "Area is lesser than perimeter."
end-if
       ○ Area is lesser than perimeter
       Area is greater than perimeter
       ○ Error
       O Not answered
8.
      What will be the output of the following pseudocode?
      Integer p,q,r
      Set p=2,q=7,r=-1
      p=p+q+r-q
      q=p+r-q
      if(p>q)
              print "good bye"
      else
              print "take care"
       O good bye take care
       good bye
       O take care
       ○ None
9.
      What will be the output of the following pseudocode?
      Integer a,b,c
      Set a= 8,b= 10,c= 6
      if(a>c AND (b+c) >a)
      print a
      end if
      if(c>b OR (a+c) >b)
      print b
      end if
      if((b+c) mod a equals 0)
      print c
      end if
         8 10 6
       \bigcirc
        0
```

```
\bigcirc
          4
10. What will be the output of 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. What will be the output of the following pseudocode?
     Integer a, b, c
     Set b = 5, a = 2, c = 2
     if(b>a && a>c && c>b)
       b = a + 1
     Else
       a = b + 1
     End if
     Print a + b + c
        \bigcirc 2
        13
        26
        \bigcirc 5
12. What will be the output of the following pseudocode?
     Integer a, b, c
     Set b = 1, c = 1
     for(each a from 1 to 3)
       b = b >> 1
       c = c \ll b
     End for
     Print b + c
     [Note: >> - Bitwise right shift operator, it takes two numbers, right shifts the bits of the first
```

6

takes two numbers, left shifts the bits of the first operand, the second operand decides the number of places to shift]	
	\bigcirc 0
	\bigcirc 2
	O None of the mentioned options
	1
13.	What will be the output of the following pseudocode?
	Integer a, b, c
	Set b = 10, a = 1
	for(each c from 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 [Note: If(x) gate executed if the value incide if() i.e. x is not zero.]
	[Note: If(x) gets executed if the value inside if(), i.e., x is not zero]
	○ 20
	○ 25
	○ 10
	17
44	Harmon Constitution for the form of the state of the stat
14.	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
	O 8 times
	O 9 times
	10 times
	○ 11 times

15.

operand, the second operand decides the number of places to shift, << - is left shift operator, it

```
What will be the output for below pseudoode for x = 5 and y = 6
READ x and y
SET ans = 0
WHILE y != 0
ans = ans + x
y = y - 1
EndWHILE
PRINT ans
        \bigcirc 11
        \bigcirc 21
        15
        30
16. What will be the output of the following pseudocode?
     Set integer sm = 0
     Set integer p = 10
     for a = 1 to p step up 1 do
     sm = sm + a
     display sm
        \bigcirc 10
        \bigcirc 46
        \bigcirc 35
        9 55
17. What will be the output of the following pseudocode?
     Set integer value = 56
     Set integer res = 0
     while(value not equals 0) do
     m = value % 10
     res = res * 10 + m
     value = value / 10
     display res
        \bigcirc 55
        O 105
        65
        085
18. 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
```

##