**For which of the following conditions "B" will be printed ?**

if(x>z)  
 if(z<y)  
 Print A  
 else  
 Print B  
 end if  
else  
 if (y>z)  
 Print C  
 else  
 Print D  
 end if  
end if

OPTIONS:

1. **x>z>y**
2. z>x
3. X>y>z
4. Y>z

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

Integer a[], k, t, m  
Set a[]={25,20,30,18,17}  
Set t=0  
for (each k from 0 to 4)  
 t=t+a[k]  
 If(t mod 2 EQUALS 1)  
 Print True  
 otherwise  
 Print False  
end for  
m=t/5  
Print m

OPTIONS:

1. **True True True True False**

**22**

2. True False True True False

20

3. True False True True False

1. What will be the output of the following pseudocode for n=10?  
   Integer f(Integer n)  
   {  
    static Integer r=0  
    if(n<=0)  
    return 1  
    end if

If (n>3)  
 r=n  
 return f(n-2)+2  
 end if  
 return f(n-1)+r  
End function f()

OPTIONS:-

1. 12
2. 21
3. 15
4. **17**
5. What will be the output of the following pseudocode?  
   Integer num, temp, no, sum  
   Set num=103, sum=0  
   while (num greater than 0)  
    no=num mod 10  
    sum=sum+no\*2  
    num=num/10  
   End while  
   Print sum

OPTIONS:-

1. **8**
2. 321
3. 18
4. 6
5. What will be the value of s if n=127?  
     
   Read n  
   i=0, s=0  
   Function Sample(int n)  
    while (n>0)  
    r=n%10  
    p=8^i  
    s=s+p\*r  
    i++  
    n=n/10  
   End While  
   Return s  
   End Function

OPTIONS:-

1. 27
2. 127
3. **87**
4. 120
5. What will be the value of s if N=20?  
   Read N  
   Function sample (N)  
    s=0, f=1, i=1;  
    Do Until i<=N  
    f=f\*I;  
    s=s+(i/f);  
    i=i+1  
    End Do  
   return (s);  
   End Function

OPTIONS:-

1. 666667
2. Infinite loop
3. 708333
4. 716667
5. What will be the output if limit=6?  
     
   Read limit  
   n1=0, n2=1, n3=1, count=1;  
   while count<=limit  
    count=count+1  
    print n3  
    n3=n1+n2  
    n1=n2  
    n2=n3  
   End While

OPTIONS:-

1. **112358**
2. 12358
3. 123581321
4. 12358132
5. What will be the value of even\_counter if number=2630?  
     
   Read number  
   Function divisible (number)  
    even\_counter=0, num\_remainder=number;  
    while (num\_remainder)  
    digit=num\_remainder%10;  
    if digit!=0 AND number%digit==0  
    even\_counter=even\_counter+1  
    End if  
    num\_remainder=num\_remainder/10;  
    End While  
   return even\_counter;

OPTIONS:-

1. 3
2. 4
3. 2
4. **1**
5. What will be the value of t if a=56, b=876?  
     
   Read a,b  
   Function mul(a,b)  
    t=0  
    while(b!=0)  
    t=t+a  
    b=b-1  
    End While  
    return t;  
   End Function

OPTIONS:-

1. 490563
2. **49056**
3. 490561
4. Non of the above

**10. 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

OPTIONS:-

1. 6
2. 5
3. 10
4. **15**

**11. What will be the output of the following pseudocode ?**

Input f=6, g=9 and set sum=0  
Integer n  
if(g>f)  
 for(n=f;n<g;n=n+1)  
 sum=sum+n  
 End for loop  
else  
 print error message  
print sum

OPTIONS:-

1. **21**
2. 15
3. 9
4. 6

12. What will be the output of the following pseudocode?   
 Integer a=2, b=6, c, I   
 c= (a+b) - 3   
 for (each I from 0 to c-1)   
 a=a-I   
 c=c+a   
 end for   
 Print c

OPTIONS:-

* 1. -3
  2. 0
  3. 3
  4. 2

13. What will be the output of the following pseudocode for input mno?  
 Fun(char a)  
 if(a[0] EQUALS NULL)  
 Return  
 end if  
 fun (a+1)  
 fun( a+1)  
 Print (a[0])  
end function fun

OPTIONS:-

1. onmmno
2. None of the option
3. **oonoonm**
4. mmnnoo

14. What wil be the output of following code?  
Integer x,y,z  
Set x=24, y=8  
x=x/y  
z=y<<x  
Print z

OPTIONS:-

1. 1
2. 8
3. 0
4. **64**

15. What will be the output of following pseudocode?  
 Integer a,b,c,d  
 Set a=14, b=15, c=16  
 if(a>6)  
 b=c-a  
 if(a>c)  
 d=b+c  
 else  
 d=b-c  
 else  
 d=a+b+c-3  
Print d

OPTIONS:-

1. -15
2. 29
3. **-14**
4. 31

16. What will be the output of following code?  
 Integer a,b,c  
 Set b=10  
 for(each a from 1 to 4)  
 b=b+a  
 end for  
 c=b/5  
 Print c

OPTIONS:-

1. 5
2. 4
3. **10**
4. None of the above

17. What will be the output of following code for input 4?  
 int sum (int num)  
 {  
 if (num is not equal to 0)  
 return num+num\*sum(num-1)  
 else  
 return num  
 }

OPTIONS:-

1. 44
2. 15
3. **64**
4. 26

18. if input a=2, b=4 then what will be the output of below code?

int fun(int a, int b)  
 int n=0  
 if(b<1)  
 return n  
 else  
 return fun(a+b+2, b-2)

OPTIONS:-

1. **0**
2. 22
3. 58
4. 9

**19. What will be the output of the following pseudocode?**

Integer a  
 Set a=10  
 do  
 if( a equals 15) //Line no. 3  
 a=a+1  
 Go to line number 3  
 End if  
 Print a  
 increment a by 1  
 while (a<20)

OPTIONS:-

1. 10 11 12 13 14 16 17 18 19
2. 10 11 12 13 14 16 18 19
3. 10 11 12 13 14 15
4. 11 12 13 14 16 17 18 19 20

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

Integer n  
  for (n = 3; n != 0; n- -)  
    Print n  
      n = n-1  
end for

OPTIONS:-

1. 3 1
2. 3 2 1
3. 3
4. Infinite loop

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

For input 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

OPTIONS:-

1. 56
2. 78
3. **72**
4. 68

22. How many times the following loop be executed?

{  
…  
ch = ‘b’;  
while(ch >= ‘a’ && ch <= ‘z’)  
ch++;  
}

OPTIONS:-

1. 0

2. **25**

3. 26

4. 1

23. What will be the output of pseud code if n=5 and the elements of the array are 24, 20, 60, 100, 2007 ?

Integer fun(Integer a[], Integer n)

Integer x

If(n IS EQUAL TO 1)

Return a[0]

Else

X=fun(a,n-1)

If(x < a[n-1])

Return x

Else

Return a[n-1]

End function fun()

Options:-

1. 24
2. **20**
3. 100
4. 50

24. 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

Options:-

1. 6
2. 5
3. 10
4. **15**

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

Input f=6,g=9 and set sum=0  
Integer n  
if(g>f)  
 for(n=f;n<g;n=n+1)  
 sum=sum+n  
 End for loop  
else  
 print error message  
print sum

Options:-

1. **21**
2. 15
3. 9
4. 6

26. What will be the output of the following for input 18?

Integer doSomething(Integer x)

If(x IS EQUAL TO 0)

Return 0

End if

If(x IS EQUAL TO 1)

Return 1

End IF

Return doSomething(x-1)\*doSomething(x-1)

End function doSomething

Options:-

1. 14
2. 0
3. None of the above
4. 1

Pseudocodes

Q.1 what will be the output of the following Pseudocode?

Integer a , n , sum , q , r

Set a=123, n=0, sum=0

Set q = a

While ( q mod 10 NOT EQUALS 0)

n = n + 1

q = q / 10

End while

Print n

While (a greater than 0)

r = a mod 10

sum = sum + r

a = a / 10 n-1

End While

Print sum

[Note mod finds the remainder after the division of one number by another. For example, the expression “5 mod 2” would evaluate to 1 because 5 divisible by 2 leaves a quotient of 2 and a remainder of 1 ]

1. 6 5
2. 6 4
3. 3 4
4. 3 2

Q.2 What will be the output of Pseudocode?

Integer n, rev, rem, orig

Set n = 61206, rev = 0

Set orig = n

While n NOT EQUALS 0

rem = n MOD 10

rev = rev \* 10 + rem

n = n / 10

End while

If (orig IS EQUAL TO rev)

Print rev

Else

Print (orig – rev) / 6

End If

[Note mod finds the remainder after the division of one number by another. For example, the expression “5 mod 2” would evaluate to 1 because 5 divisible by 2 leaves a quotient of 2 and a remainder of 1 ]

1. 60216
2. 61206
3. 0
4. 165

Q.3 What will be the output of the following Pseudocode?

Integer num, temp, digit, sum

Set num = 123, sum = 0

While (num greater than 0)

digit = num mod 10

sum = sum + digit \* 2

num = num / 10

End while

Print sum

[Note mod finds the remainder after the division of one number by another. For example, the expression “5 mod 2” would evaluate to 1 because 5 divisible by 2 leaves a quotient of 2 and a remainder of 1 ]

1. 12
2. 321
3. 18
4. 6

Q.4 What will be the output of the following Pseudocode?

Integer i, j, sum, n

Set sum = 0 , n = 7

Repeat for i = 1 to n

Repeat for j = 1 to i - 1

sum = sum + j

End loop

End loop

Print sum

1. 84
2. 147
3. 56
4. 35

Q.5 What will be the output of the following Pseudocode?

Integer i = 0, j = 0

While ( i < 2 ) // line 2

Increment i;

While ( j < 3 )

Print A

Go to line no. 2

End while

End while

1. It will print A two times
2. None of the mentioned options
3. It will print A four times
4. It will print A three times

Q.6 What will be the output of the following Pseudocode?

Integer n, beg, end

Set beg = 5, end = 7, sum = 0

If (beg > end)

Print sum + 1

Else

For (n=end; n>=beg; n=n-1)

Sum = sum + n

n = n – 1

End for loop

Print n

1. 6
2. 3
3. 7
4. 9

Q.7 What will be the output of the following pseudocode for a=84, b=24?

Integer fun (Integer a, Integer b)

While (a NOT EQUALS b)

If(a > b)

Return fun (a – b , b)

Else

Return fun (a, b - a)

End if

End while

Return a

End function fun( )

1. 12
2. 60
3. 2
4. 3

|  |
| --- |
| Q.8 What will be the output of the following pseudocode?  Integer I, sum  Set i=1, sum=0  Sum=sum + i //Line 3  If(sum>500)  Print i  Else  i=i+1  go to line number 3  end if  32  45  28  36 |