**QUESTION 1**

What will be the output for the following pseudocode for input pqr?

Fun(char a)

if(a[0] equals NULL)

return

end if

fun(a+1)

fun(a+1)

print(a[0])

End function Fun

1. None of the mentioned
2. rqppqr
3. **rrqrrqp**
4. ppqqrr

**Question 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

1. True False True True False 20
2. False True True True False 20
3. True False True True False 15
4. **True True True True False 22**

**Question 3**

Char text = “TESTSTRING”

Integer a,c

Char ch = ‘T’

c=0

For (each a from 0 to length of text)

if(text[a] ==ch)

c=c+1

end if

End for

if(c>0)

Print c

Else

Print 0

End if

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

**Question 4**

What will be the output of the following pseudocode?

Declare arr[5]

Set arr[]={ 4,5,7,2,6}

For i= 0 to 4

For j = 0 to 3

Declare t

if(arr[j]<arr[j+1])

t=arr[j]

arr[j]=arr[j+1]

arr[j+1]=t

end if

end For

End For

For k = 0 to 4

Print arr[K]

End For

1. **7 6 5 4 2**
2. 5 4 6 2 7
3. 5 4 7 6 2
4. 2 4 5 6 7

**Question 5**

What will be the output of the following pseudocode?

Char str[20]

Integer s

Set str = “PQRSTUVWXYZ”

s=string\_length(str)

str[4]=NULL

s=strlen(str)

Print s

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

**Question 6**

What will be the output of the following pseudocode?

Integer arr1[10], n, ctr, p , q, r

Set arr1[] = {1, 2, 3, 4, 5, 2, 6, 5, 9}, n = 9 ,ctr = 0

For (each p from 0 to n-1)

ctr =0

for(each q from 0 to p-2)

if(arr1[p] = arr1[q])

ctr = ctr +1

end if

end for

for (each r from p + 1 to n-1)

if(arr1[p] = arr1[r])

ctr = ctr + 1

end if

end for

if(ctr EQUALS 0)

print arr1[p]

end if

end for

1. None of the mentioned options
2. 1 2 3 4 5 6 9
3. **1 3 4 6 9**
4. 2 5

**Question 7**

What will be the output of the following pseudocode?

Integer a[5], b[5], c[5], k

Set a[5] = { 2, 4, 6, 8, 10}

Set b[5] = {5, 7, 9, 11, 13}

for (each k from 0 to 4)

c[k] = a[k] + b[k]

end for

for (each k from 0 to 4)

print c[k]

end for

1. 11 12 13 14 1 5
2. **7 11 15 19 23**
3. None of the mentioned options
4. 7 8 9 10 11

**Question 8**

What will be the output of the following pseudocode?

Integer a[],k,l,m

Set a[10]= {20,15,25,13,12}

set I=0

For(each k from 0 to 4)

I=I+a[k]

End for

m=I/5

Print m

1. 58
2. 12
3. 10
4. **17**

**Question 9**

What will be the output of the following pseudocode?

Integer a[5][5],k,j;

for(k =0;k<5;j++)

a[k][j]=a[j][k]

End for

End for

Which of the following is true

1. It transposes the given matrix A
2. It doesn’t alter the given matrix A
3. None of the mentioned options
4. **It makes the given matrix A, symmetric**

**Question 10**

What will be the output of the following pseudocode?

Integer array[10]= {2,3,56,34}

Integer k,a,j,n

Set a=3,n=4

For (each k from 0 to a-1)

Set array [n] = array[0]

For (each j from 0 to n-1)

set array [j]=array[j+1]

End for

End for

For(each k from 0 to n-1)

Print array[k]

End for

1. 2 3 34 56
2. **34 2 3 56**
3. 56 34 3 2
4. None of the mentioned options

**Question 11**

What will be the output of the following pseudocode?

Integer n,j,k,c,t,b,array[5]

Set n=6 c=1

Set array[5] = {1,2,3,5,6}

b=array[0]

For(each k from 1 to n-2)

b=b^array[k]

End for

For(each k from 2 to n)

c=c^k

End fro

c=c^b

Print c

1. 17
2. 5
3. 6
4. **4**

**Question 12**

What will be the output of the following pseudocode if n=5 and elements of array are 24,20,60,100,200?

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()

1. 60
2. **20**
3. 24
4. 100

**Question 13**

What will be the output of the following pseudocode for given a[5]={3,4,6,1,2,}and pos=2?

Declare i,j,n,pos

Repeat for j=pos to n-1

Set a[j]=a[j+1]

n=n-1

Display the new array

End

1. 3 2 4 6 1 2
2. **3 4 1 2**
3. 3 4 2 1 2
4. 3 6 1 2

**Question 14**

What will be the output of the following pseudocode?

Let Ib be the lower bound and ub be the upper bound of the array

[Initialize counter] set k at lower bound Ib

repeat for k=Ib to ub

Print a[k]

[End of the loop]

Exit

1. Inserting element in an array
2. Deleting an element from an array
3. sorting an array
4. **traversing of array**

**Question 15**

What will be the output of the following pseudocode?

Char str[100]=”India”, ch=’n’

Integer ind[10],loop,j=0

For(each loop from 0 to end of the string)

if(str[loop]==ch)

ind[j++]=loop

For(each loop from 0 to j-1)

Print ind[loop]

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

**Question 16**

What will be the output of the following pseudocode?

Integer num[]={1,4,8,12,16}

Integer \*a, \*b

Integer i

Set a =num

Set b = num+2

i=\*a++

Print I \*a \*b

1. 2 1 8
2. **1 4 8**
3. 4 4 8
4. 2 4 8

**Question 17**

What will be the output of the following pseudocode?

static char hello[]=”hello”

Choose the option ehich will print “hello” as an output

1. puts(“hello”);
2. **All the mentioned**
3. printf(“%s”,”hello”);
4. puts(hello);

**Question 18**

Which of the following formula will correctly calculate the memory address of the third element in the array

(w is the number of word per memory cell for the array)

1. loc(Array[3])=base(Array[3]+3-lower bound)
2. **Information is not adequate to solve the given problem**
3. loc(Array [3])=base(Array)+w(3-lower bound)
4. loc(Array[3])=base(Array[4])+(3-upper bound)

**Question 19**

What will be the output of the following pseudocode?

Integer k=4

Integer \*const p=&k

Integer r=3

p=&r

Print p

1. **Compile time error**
2. It will print address of k and address of r
3. it will print address of r
4. it will print address of k

**Question 20**

What will be the output of the following pseudocode?

Main()

integer i=10, \*p=&i

ru(p++)

ru(integer \*p)

print \*p

1. **10**
2. 1144880
3. Garbage value
4. Segmentation fault