

## PSUEDO CODE QUESTIONS

1. Integer fun(Node\*p)

```
while(p not equals NULL)
```

```
    printf p->data
```

```
    p=p->next
```

```
end loop
```

a) fun only traverses the linked list it does not print the elements present in each node.

b) fun traverses the linked list it does print the elements present in each node.

c) fun check wheather the linked list is sorted or not.

d) None of these.

2. Integer b

```
set h=42
```

```
do
```

```
    print h
```

```
    h++
```

```
if(h>45)
```

```
    jump out of loop
```

```
while(1)
```

```
end dowhile
```

Find the output:

a) 42 43 44 45

b) 43



c) 42

d) 42 44 45 46

3) Consider the following  $4x^4 + 6x^3 + 7x^2 + 11x + 12$ . Represent it in an array.

a) None of given

b) 4, 3, 2, 11, 0

c) 13, 11, 7, 3, 6, 4

d) 12, 11, 7, 6, 4

4) Find the output for pseudocode if a=50?

Integer fun( integer a)

    Integer b

    set b=10

    return a-b

end

a) none

b) 40

c) 60

d) 50

5) Find the output for pseudocode ?

Integer x,y,z

set x=0,y=1

for(each z from 0 to 2)

    x=x+y+z

end for



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print x

a) 7

b) 5

c) 6

d) 8

6) Find the output for pseudocode ?

Integer p,q,r

set p=6, q=3, r=0

while(1)

r=p-q

p=p+r

if(p>23)

    jump out of loop

else

    q=p-q

end if

print q

end while

a) 3 6 12

b) 7 7 14

c) 6 6 12

d) 6 6 12 18

7) Find the output for pseudocode?



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```
Integer a[3][3], k,j, sum  
set sum=0  
set a[3][3] ={ {1,2,3}, {4,5,6}, {7,8,9}}  
for(each k from 0 to 2)  
    for( each j from 0 to 2)  
        sum=sum+ a[k][j]  
    end for  
    jump out of loop  
end for  
print sum  
a} print the sum of first colum  
b) print the sum of second column  
c) print the sum of first row
```

d) print the sum of second row

8) Find the output for pseudocode?

integer a, b, c

set b=1, c=1

for(each a from 1 to 3)

    b=b>>1

    c=c<<b

end for

prin b+c

a) 2



b) 3

c) 4

d) 1

9) Find the output for pseudocode

Integer a, k, j, i

set a=10, k= a/4, j=k/1

for(each i from 1 to j)

    print j+3, i+3

end for

a) 4 5 4 5

b) 5 4 5 5

c) 4 4 4 4

d) 5 4 5 4

10) How will you initialize a multidimensional array on data structure?

a) int a[][]

b) int a[[]]

c) int []a[]

d) int a[]

11) Consider a directed graph , G with 4 nodes, A, B, C and D,The adjacency lists of

A:D B:A C:A D:B,C

Identify the correct statement(s)

a) G is a strongly connected graph

b) In degree of A is 2



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c) Out degree of B is 1

d) All the above

12) Find the output for pseudocode

Integer p(integer x, integer y)

    return 1

    else if(y mod 2 equals 0)

        return p(x,y/2) \* p(x,y/2)

    else

        return x\*p(x,y/2) \* p(x,y/2)

end if

end function p()

a) 9

b) 81

c) 36

d) 27

13) Find the output for pseudocode

Integer a1, p

set a1=8

p= a1+5/7\*4

print p\*8

a) 8

b) 64

c) 0



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d) 7

14) Find the output for pseudocode

integer a, b

set a=10, b=10

a= a&b

b=b&10

a=a&b

b=b&10

printf a+b

a) None

b) 0

c) 20

d) 10

15) Find the output for pseudocode

fun(integer k)

if(k>55)

return

end if

print k'

fun(k+4)

print k

end function fun()

a) 50 50 50 50



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b) 50 54 54 50

16) Find the output for pseudocode for b=18?

Integer calculate(integer b)

if(b equals 1)

    return 0

else

    return 5+ calculate(b/2)

end

a) 56

b) 34

c) 20

d) 50

17) Find the output for pseudocode

integer p,q,r,s,t

set q=12,r=3

while(q>(r-1))

    r=r\*2

    s=r+q

    t=(s mod 4) +r

end while

if(s>t)

    print t

else



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print s  
end if

- a) 20
- b) 24
- c) 26
- d) 22

18) Find the output for pseudocode

```
integer i,j  
set i=0,j=9  
do  
    i=i+1  
    if( ( j=j-1) < (i=i+1))  
        jump out of loop  
    end if  
    while (i<5)  
printf i,j
```

- a) 5, 5
- b) 6,6
- c) 5,6
- d) 6,5

19) Find the output for pseudocode

```
integer a, b, c  
set a=5, b=300, c=1
```

```
if(b>a)
    b=a
else
    a=b
end if
```

```
for(each b from 0 to 5)
```

```
    a=a+1
```

```
end for
```

```
print a+c
```

a) 13

b) 12

c) 1

d) 15

20) Find the output for pseudocode

```
Integer i,j,k,m
```

```
set j=16, i=8, k=2, m=1
```

```
if( (j^i) mod k equals 0)
```

```
    m=m+1
```

```
else
```

```
    m=m-1
```

```
end if
```

```
print m
```

a) 0



b) 1

c) 2

d) 3

21) Find the output for pseudocode

Integer x

set x=15

while ( x equals 15)

    print "student"

    jump out of loop

end while

How many times the word " student" will be print?

a) 1

b) 2

c) 15

d) unlimited

22) Find the output for pseudocode

integer a[5], k

swt a[5]={ 1,2,3,4,5}

for(each k from 0 to 4)

    if( k mod 2 equals 0)

        print a[k]\*2

    else

        printf a[k]



end if

end for

- a) 14 3 8 5
- b) none
- c) 12 6 4 10
- d) 2 2 6 4 10

23) Consider an array A ={ 11, 2, 34} and an array B ={0,4,-3}. An array C has been made by joining array A and B ,in order (C has 6 elements). Calculate the sum of first and last element in array C

- a) 11
- b) 8
- c) 1
- d) 0

24) Suppose there is a column major order  $3 * 4$  integer array with the base address as 1000. Find out the address of element A[3,2]. Consider the size of element as 2

- a) 1020
- b) 1010
- c) 1018
- d) 1016

25 ) suppose there is 1D array Arr[10] with the lower bound as 1 and starting base address as 1020. Find the address of Arr[5] if the size of each element is 2

- a) 1024
- b) 1028



c) 1016

d) 1012

26) Find the output for pseudocode

integer a,b,c

set b=5, a=2, c=2

if(a)

    a=a-1

    a=c

else

    c=c+1

end if

if(a)

    c=c+1

else

    c=c-1

end if

print a+c

a) 10

b) 15

c) 5

d) 20

27) Find the output for pseudocode

integer a=0



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a=(a^1) & (2^3)

print a

a) 0

b) 1

c) 2

d) 4

28) Find the output for pseudocode

integer a, b

set a=3, b=7

if(b^3)

a=a+( b mod 3)

end if

print a+b

a) 11

b) 1

c) 2

d) 12

29) Find the output for pseudocode

integer a, b, c

set b=4, a=2, c=2

if( c>(b-a))

    b=a+1

else



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a=b+1

c=0

end if

print a+b+c

a) 7

b) 5

c) 9

d) 6

30) Find the output for pseudocode for a=2?

integer fun(integer a)

    integer arr[]={ 6,1,2,3}

    integer x,y

    set y=0

    for(each x from 0 to a-1)

        y=y^arr[x]

    end for

    return y

end function fun()

a) 6

b) 5

c) 7

d) 4

31) Which of the following is NOT a type of linked list?



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a) Header linked list

b) Doubly linked list

c) Circularly linked list

d) None

32) suppose there is 1D array Arr[24] with the lower bound as 1 and starting base address as 1030. Find the address of Arr[21] if the size of each element is 2

a) 950

b) 1180

c) 1016

d) 970

33) DFS traversal can be used for which of the following application?

1. To find strongly connected components of a graph

2. Topological sorting

3. for detecting cycle in a graph

choose the correct answers from the given below

a) only 2 and 3

b) only 1 and 3

c) only 1 and 2

d) all 1,2,3

34) which of the statement is /are correct about recursion?

1. it terminates when the loop continuation condition fails.

2, it terminates when a base case is recognized.

3. it creates multiple activation records created on the stack for each



cell

choose the correct answer from the options given below.

- a) only 1 and 2
- b) only 2
- c) only 1 and 3
- d) only 2 and 3

35) What will be the output for the following pseudocode?

integer a, b

set a=0

a=a^1

a=a^2

a=a^3

print a

a) 3

b) 0

c) 1

d) 2

36) find out the recursion depth in the given program

function pow(x,n)

{

return (n==1) ? x : ( x\* pow(x,n-1));

}

a)  $n^x$



b) 1

c) n

d) n-1

37) What will be the output for the following pseudocode?

integer a[4].k

set a[4] = { 1,2,3,4}

for(each k from 1 to 1)

    if(a[k]<a[k+1])

        if(k equals 2)

            jump out of loop

    else

        continue

    end if

end if

end for

print "unsorted"

print "sorted"

a) none

b) unsorted sorted

c) sorted

d) unsorted

38) What will be the output for the following pseudocode?

integer a,b,c



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```
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
a) 26
b) 5
c) 2
d) 13
```

39) which of the following are the applications of doubly ended queue?

- a) It can be used as a palindrome checker
- b) None
- c) both A and B
- d) It is used in A-steal algorithm (job scheduling)

40) What will be the output for the following pseudocode?

integer a, b, c

set b=100,a=1

if(1)

    b=a\*1

    a=a\*1

    a=b\*1



```
else  
    a=b+1  
    b=a-1  
    a=a-1
```

end if

print a

- a) 1
- b) 10
- c) 5
- d) 15

41) What will be the output for the following pseudocode?

```
integer a[10]
```

```
set a[10]={1,2,3,4,5,6,7,8,9}
```

```
for(each i from 1 to 4)
```

```
    if(a[i/2]  
        printf a[i*2]
```

```
    else
```

```
        printf a[i+2]
```

```
    end if
```

```
end for
```

- a) 2 4 6 8
- b) 1 2 3 4 5
- c ) 2 6 8 0



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d) 1 3 5 7 9

41) What will be the output for the following pseudocode for a=2 ?

```
integer fun(integer a)
```

```
    integer p=1
```

```
    if(a>0)
```

```
        return p+fun(a-1)
```

```
    else
```

```
        p=p+1
```

```
        return a+p
```

```
    end if
```

```
end function fun()
```

a) 6

b) 4

c) 8

d ) 2

42) What will be the output for the following pseudocode?

```
integer a,b,c
```

```
set b=0,a=1
```

```
for(each c from 1 to 2)
```

```
    a=a*c*c
```

```
    b=b*c*c
```

```
end for
```

```
if((1&4) || 1|| (2^3))
```



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```
b=a-1  
a=a-1  
else  
    a=a mod 1  
    b=b mod 1  
end if  
print a+b+c  
a) 7  
b) 9  
c) 8  
d) 5
```

43) Which of the following using divide and conquer algorithm for sorting?

1. Quick sort
  2. Merger sort
- a) only 1  
b) only 2  
c) none  
d) Both 1 & 2

44) What will be the output for the following pseudocode for a=3 and b=4?

```
Integer foo(integer a, integer b)  
if(a equals 0)  
    return b  
else if(a equals 1)
```



```
    return b+1  
else  
    return foo(a-1,a+b+5)
```

end if

end function foo()

- a) 20
- b) 10
- c) 7
- d)5

45) What will be the output for the following pseudocode?

```
integer a,b
```

```
string atr1,str2
```

```
set str1="moms"
```

```
set str2="pizza"
```

```
str1=str1+str2
```

```
a=stringLength(str1)
```

```
b=stringLength(str1+str2)
```

```
print a+b
```

- a) 25
- b) 12
- c) 20
- d) 15

46) What will be the output for the following pseudocode?



```
integer a,b  
set a=12, b=5  
if((a^b) & (a&b))  
    a=b  
end if  
printf a+b
```

a+ 9

b) 10

c) 17

d) 11

47) Match the following

Types of recursion functions:

1. Linear recursion

2. binary recursion

3. tail recursion

Example:

A. greatest common factor

B. Fibonnacci function.

C. Factorial

a) 1B, 2 C, 3 A

b) 1C ,2 B ,3 A

c) 1C ,2 A ,3 B

d) 1B ,2 A ,3 C



48) How many times the word "btech" will be printed?

Integer a,b

for(each a from 0 to 3)

for(each b from 0 to a)

print "btech"

end for

end for

a) 8

b) 9

c) 11

d) 10

49) What are the following criteria to be considered while analyzing a sorting technique?

a) Number of comparisons and stability

b) All the above

c) stable and adaptive

d) adaptive and number of swaps

50) What will be the output for 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

printf a+b+c

- a) 20
- b) 25
- c) 10
- d) 17

51) john has written a program that traverses a given an array linearly and outputs the sum of all the elements of an array which are divisible by 3. If an array{1, 2, 4, 3, 6, 7, 3, 5, 4, 7, 8, 9}is fed into john's program, what will be the output?

- a) 21
- b) 10
- c) 18
- d) 6

52) What will be the output for the following pseudocode?



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integer a, b

set a=3, b=5

if(a&(b+1))

a=a+a

end if

print a+b

a) 11

b) 30

c) 8

d) 7

53) Consider a linked list "X" with the following properties

1. Last node's link field points to the first node of the list.
2. It allows access to the middle nodes , without starting at the begining.

Identify the type of X

a) singly linked list

b) circularly linked list

c) heap

d) none

54) What do you mean by underflow condition in the stack ?

a) it is when the stack is completely filled and try to pop an element from the stack

b) it is when stack is empty and try to push an element to the stack.

c) it is when stack is empty and try to pop an element from the stack.

d) it is when the stack is completely filled and try to push an element to



the stack

55) if you using merge sort , then which of the following statements are correct that need to be considered?

1. it cannot work well with large datasets
2. it is prefered for linked lists.
3. it needs auxillary memory for sorting

a) only 2 and 3

b) all 1, 2, 3

c) only 1 and 2

d) only 1 and 3

56) BFS can be used for which of the following?

1. to find all the neighbouring locations in GPS navigationsystem

2. in social Networking websites to find the people within a given distance

3. for detecting cycle in any graph

a) only 1 and 2

b) only 2 and 3

c) All

d) only 1 and 3

57) Identify the sorting techniques that are stable as well as adaptive?

1.Quick sort

2. bubble sort

3. radix sort

3. shell sort



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4. shell sort

5. insertion sort

a) only 3 and 5

b) only 2 and 5

c) only 1,2,3

d) none

58) When a function calls makes a nested call , which of the following will happen ?

1. the current function runs in parallel

2. after it ends, the old conversation context is retrieved from the stack

3.the execution context associated with the current function is remembered in a special data structure called execution context stack.

a) only 1,2

b) only 2, 3

c) only 1, 3

d) All 1,2,3

59) Consider an array A=(2,4,6,7,8,9)

carry out following operation.

1. append 12 at the end

2. insert 0 at the begining

3. delete third element

what will be the final array?

a) 0,2,4,7,8,9

b) 0,4,6,7,8,9



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c) 0,2,6,7,8,9

d) none

60) What will be the output for following code?

integer a,b,c

set b=40, a=20, c=20

if(c>(c+a))

    b=0

else

    a=a+2

    c=a+2

end if

if(c>(b+a))

    b=0

else

    a=a+2

    c=a+2

end if

print a+b+c

a) 60

b) 30

c) 90

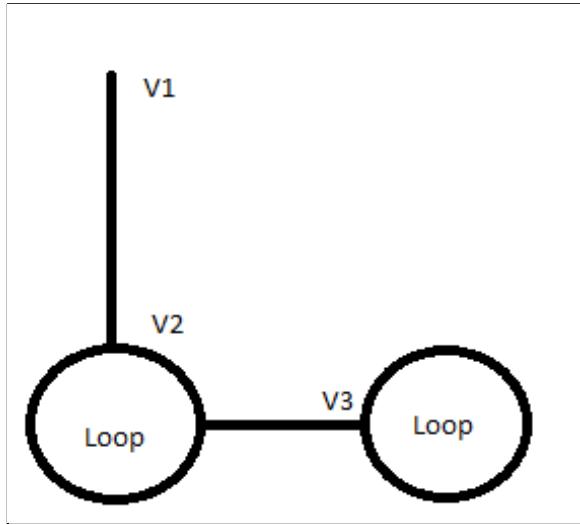
d) 29



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## CAPGEMINI - PSEUDOCODE

1. Find out the sum of the degree of vertices in the pseudograph as shown in the image



- A. 12
  - B. 16
  - C. 8**
  - D. 4
2. Why open addressing provides better cache performance than chaining?

- 1. In open addressing, everything is sorted in the same table
- 2. In chaining keys, are stored using a linked list.

- A. Only 1 is true**
- B. Only 2 is true
- C. Both 1 and 2 are true
- D. Both 1 and 2 are false

3. Which of the following statements are true about Floyd's Cycle-Finding Algorithm

- A. It is used to reverse the linked list
- B. None of the mentioned options

C. It is used to remove duplicates from the linked list

D. It is used to detect loop in linked list

4. Which of the following is the correct Adjacency Matrix for the given graph

A. 0 0 0 1 1

0 0 0 1 1

0 0 0 1 1

1 1 1 1 1

1 1 1 1 1

B. 0 0 0 1 1

0 0 0 1 1

0 0 0 1 1

1 1 1 0 0

1 1 1 0 0

C. 0 0 0 1 1

0 0 0 1 1

0 0 0 1 1

1 1 1 0 1

1 1 1 1 0

D. 0 0 0 1 1

0 0 0 1 1

0 0 0 1 1

1 1 1 1 0

1 1 1 0 1

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



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1. Integer a, b, c, d
2. set d = 6
3. for(each a from 1 to 2)
4. for(each b from a to 2)
5. for(each c from b to 2)
6. print d
7. end for
8. end for
9. end for

A. 6 6 6 6 6 6

B. 6 6

C. 6 6 6

D. 6 6 6 6

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

1. Integer a, b, c
2. Set a=108, b=2, c=3
3. if((a MOD 9) EQUALS 0)
4. b=b+(a MOD 2)
5. print b
6. else
7. c=c+(a MOD 7)
8. print c
9. end if

A. 2

B. 7

C. 1



D. 3

7. Sam is using merge sort to sort an array consisting of 64 elements. After how many passes, each sorted subarray will contain 16 elements?

A. 4

B. 5

C. 2

D. 3

8. Henry wants to find out the second largest element of an array using bubble sort. After how many passes will he get the second largest?

A. 2

B. It depends on the number of elements

C. 1

D. 3

9. Consider an undirected graph, G with four vertices. The adjacency matrix of the given array is shown below

1011

0011

1110

1100

Find the number of self loops in the undirected graph, G

A. 1

B. 0

C. 3

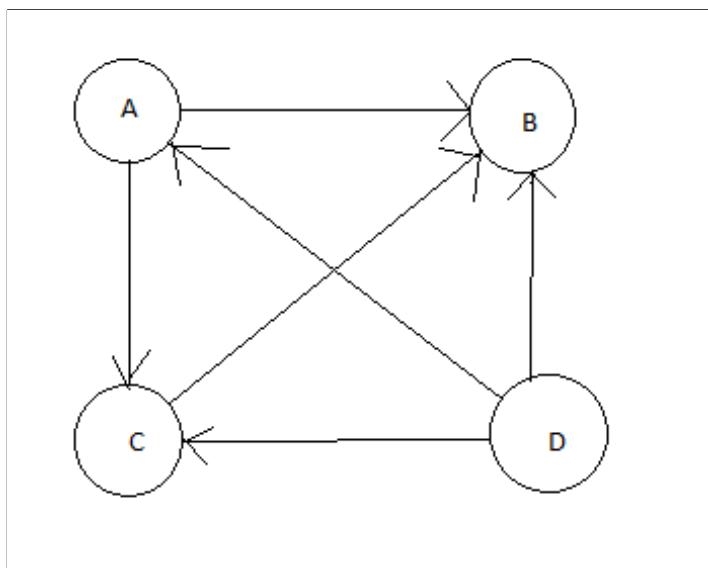
D. 2



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10. Which of the following is the correct topological ordering of the given graph?

- 1.DACB
- 2.DABD
- 3.DCAB
- 4.No topological ordering



A. 1 and 3

B. Only 1

C. Only 3

D. Only 2

11. Identify the effect(s) of using stack inrecursion

- 1. It is comparatively slower than iteration
- 2. It uses more memory than recursion

Choose the correct answer

A. Only 2

B. Both 1 and 2



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C. Neither 1 nor 2

D. Only 1

12. Consider an array A, with n elements. The following operations are performed on array, A:

- i. Right shift
- ii. Left shift
- iii. Left rotation
- iv. Right rotation
- v. Left shift
- vi. Right rotation

What is the number of elements in A, after the following operations are performed,

A. n

B. n-4

C. n-3

D. n+3

13. In an empty BST, insert the following elements in a similar sequence. What element will be at the lowest level of the tree

105, 95, 22, 99, 97, 120

A. 95

B. 97

C. 99

D. 120

14. Consider a two dimensional square matrix A, consisting of 5 rows and 5 columns. The elements of A are given by the formula:



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A[k][j]=i, if k>j

A[k][j]=j, if k<j

A[k][j]=0, if k<j (Assume 0 based indexing)

Calculate the sum of all elements of A

A. 60

B. 32

C. 28

D. None of the mentioned options.

15. Find out the correct inorder traversal sequence of a BST?

1. 15, 19, 22, 26, 29, 35

2. 15, 18, 20, 22, 28, 26, 32

3. 14, 17, 19, 21, 26, 31, 33

A. Only 3

B. Only 1 and 3

C. Only 2

D. Only 1 and 2

16. Moneta is writing a program to perform insert operation in a binary search tree using recursion. Which of the following types of recursion will she be using in her program?

A. Tail recursion

B. Head recursion

C. Both A and B

D. None

17. A polynomial,  $f(x)$  is represented by the following array:



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{2, 4, 6, 3, 1}

What is the sum of coefficients of  $x^3$  and  $x^1$ ?

A. 6

B. 9

C. 7

D. 5

18. If there is a data structure in which the relationship of adjacency is not maintained between the data items then which of the following operations in **not** applied to the data structure?

A. sort

B. Display

C. Delete

D. Search

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

character p[20], b[20]

Set p[20] = "Respect your elders"

Integer k

Set k=0

while(p[k] not equals null character AND p[k] not equals space)

    b[k]=p[k]

    k=k+1

end while

Set k=0

while(b[k] not equals null character)



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```
print b[k]  
k=k+1  
end while
```

- A. elders
- B. Respect elders
- C. Respect
- D. R

20. For which of the following values of 'a', the statement under 'if' will execute?

```
Integer a  
if(a mod 10 >5 OR a mod 10 equals 3 AND a/100 equals 1)  
    print a mod 10 +a/100
```

```
else  
    print a
```

```
end if
```

- A. 123
- B. 355
- C. 111
- D. 121

21. Consider an undirected graph, G with  $V=\{a, b, c, d, e, f\}$ . There are 6 pairs  $[x,y]$  of nodes such that node x is connected with node y; hence  $E=\{[a,b], [a,e], [b,d], [e,c], [e,f], [b,f]\}$ . Identify the correct statements about the graph, G.

- A. The graph is disconnected
- B. The graph is complete



- C. The graph is not loop free
- D. The graph can be a spanning tree of some graph

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

```
Integer fun(Integer p, Integer q)
    Integer k
    Set k=0
    if(p>0 && q>0)
        k=k+1
        fun(p-1,q)
    end if
    return k
End function fun()
```

- A. -1
- B. 2
- C. 1
- D. 3

23. What will be the output of the following pseudocode for a=6?

```
Integer fun(integer a)
if(a EQUALS 0)
    return a+9
else
    return fun(a-1)
End function fun()
```

- A. 6
- B. 0



C. 9

D. 1

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

```
Integer i  
Set i=45  
if(i mod 2 EQUALS 0 OR i mod 2 AND i)  
    print i mod 2  
else  
    print i  
end if
```

A. 1

B. 0

C. 2

D. 45

25. Consider the following pseudocode

```
Integer fun(Node *p)  
Integer x=MIN_INT  
while(p not equals NULL)  
    if(p->data < x)  
        return 0  
    else  
        x=p->data  
        p=p->next  
    end if  
end loop  
return 1
```



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end fun

p is a pointer to the first node of the linked list, which of the following operation is performed by the function fun?

A. Function fun detects a loop in the linked list. It returns 1 when a loop is found and 0 when no loop is found.

B. None of the mentioned options

C. Function fun finds the largest element of the linked list

D. Function fun checks whether a linked list is sorted or not. It returns 0 when the list is not sorted and 1 when it is sorted.

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

Integer a

String str1

Set str1="momo"

for(each a from 1 to 2)

    str1=str1+"mm"

end for

print(stringLength(str1))

A. 7

B. 4

C. 6

D. 8

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

Integer fun(Integer a)

    if(a>0)

        return fun(a-1)

    else

        return a+10



```
    end if  
end function fun()
```

A. 9

B. 0

C. 10

D. 7

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

```
Integer a  
Set a=10  
while(a NOT EQUALS a/2)  
    print "engineering"  
    a=a-1  
    if(a EQUALS 3)  
        print "engineering"  
    end if  
    jump out of loop  
    print "engineering"  
end while  
if(a EQUALS 2)  
    print "23"  
else  
    print "engineering"  
end if
```

A. it will print engineering 3 times

B. it will print engineering 2 times

C. it will print engineering 4 times



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D. it will print 23

29. Heap is more efficient for implementing priority queues than a linked list or an array as it supports the following operations in  $O(\log n)$  time.

1. insert()
  2. extractmax()
  3. decreaseKey()
- A. Only 1 and 2  
B. Only 2 and 3  
**C. Only 1 and 3**  
D. All 1, 2 and 3

30. Linked lists are considered as which type of data structure based on:

1. Storage
2. Access strategies
  - A. Linear, Non-linear
  - B. Non-linear, Linear**
  - C. Linear, Linear
  - D. Non-linear, Non-linear

31. Which of the following conditions should be checked to find if a B-tree of order m is a multiway search tree?

1. The root has at least two subtrees unless it is the only node in the tree.
  2. Each nonroot and each nonleaf node have at most m nonempty children and at least  $m/2$  nonempty children
  3. All leaves are on the same level
- A. ONLY 1 AND 3  
B. ONLY 1AND 2  
C. ONLY 2 AND3



**D. ALL**

32. Which of the following statements is/ are true for the shortest path and minimum spanning tree for unweighted graph?

1. The shortest path is the path with least number of edges
2. Any spanning tree is minimum spanning tree
3. Only breadth first traversal can be used for finding a spanning tree and not depth first traversal

**A. Only 1 and 3**

B. Only 1 and 2

C. All

D. Only 2 and 3

33. If the speed of packets sent by a sender is faster than the speed of receiver, then which of the following would be the most suitable for synchronize

A. Quad tree

B. B tree

C. Binary tree

**D. Queue**

34. Consider a two dimensional square, A consisting of 100 rows and 100 columns. The elements of A are given by the formula:

$A[k][j] = 1$ , if  $k=j$

$A[k][j] = 0$ , otherwise

Which of the following statements are correct about A?

A. A is a sparse and diagonal matrix

**B. A is diagonal matrix**

C. A is a dense matrix

D. A is a sparse matrix



35. In which of the following data structure the relationship of adjacency is not maintained between the data items?

- A. Linked list
- B. Queue
- C. Stack
- D. Decision tree

36. What will be the output of the following pseudocode

```
Integer i, k  
Set k=0  
for(each i from 3&1 to 3*4)  
    k=k+j  
end for  
print k
```

- A. 6
- B. 8
- C. 7
- D. 5

37. With the help of the following information find out the sum of the degrees of all vertices,

-Number of vertices = X1

-Number of edges = X2

- A.  $2X_1$
- B.  $2X_2$
- C.  $X_1-X_2$
- D.  $X_2-X_1$

38. What will be the worst case time complexity of insertion of a heap data structure that takes the form of a binary tree?



A.  $O(n)$

B.  $O(\log n)$

C.  $O(n \log n)$

D.  $O(1)$

39. Which of the following is the correct condition to check if the queue is empty, where the front, rear and

A.  $\text{rear}=\text{size}-1$

B.  $\text{front}==\text{rear}-1$

C.  $\text{front}+1=\text{rear}$

D.  $\text{front}=\text{rear}+1$

40. George is writing a program in which he wants to use the features of two way list and circular header list. Which of the following data structure recommend him?

A. Two way circular list

B. Array

C. One way list

D. Header list

41. Which of the following expression is written in polish notation?

A.  $A+B+C$

B.  $*CD$

C.  $C*D$

D.  $CD*$

42. Consider a linked list with 5 nodes. The address of the first node is 100. What will be the address of the 3rd node

A. Cannot be determined

B. 104

C. 102



D. 106

**43.** A type of linked list, say X consist of nodes that is divided into 3 parts:

The 1st part contains the address of the previous node

The 2nd contains the data element

The 3rd part contains the address of the next node

A. Circularly LL

B. Singly LL

C. None

**D. Doubly LL**

**44.** Consider an array A={1,2,4,6,8,10,12} and a key which is equal to 10. How many comparisons would be done to find the key element in the array using the binary search

A. 1

**B. 2**

C. 5

D. 3

**45.** Consider the followig list of numbers

2,6,8,4,66,9,7,0,3,33,44

Jack wants to categorize the above numbers in three groups

Group-1 will contain numbers less than 5

Group-2 will contain numbers between 5 and 10

Group-3 will contain numbers greater than 10

The final output that Jack wants is :

2,4,0,3|6,8,9,7|66,33,44

Which data structure should be used to carry out the above operation?

A. Queue



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B. Both queue or stack can be used

C. Stack

D. None

**46.** Consider an array of float. Calculate the difference between the address of the 1st and 4th element, assuming float occupies 4 bytes of memory .

A. 12

B. 16

C. 8

D. 4

**46.** Which of the following is the correct reason that should be considered while selecting the correct technique of traversal for Ford-Folks

I. BFS is preferred as it reduces worst case time complexity.

II. DFS is preferred as it reduces worst case time complexity.

A. Both I & II

B. only I

C. Neither I or II

D. only II

**47.** In which of the following applications, both Breadth First or Depth First Traversal can be used?

1. To test if graph is Bipartite.

2. Finding all nodes within one connected component.

3. GPS Navigation systems.

Choose the correct option:

A. only 2 & 3

B. All 1,2,3



C. only 1 & 3

D. only 1 & 2

48. If you find a directed graph where there is path from each vertex in the graph to every other vertex than what does it indicates.

1. Graph has cycle.
2. Graph is bipartite.
3. Strongly Connected Components

Choose the correct answer

- A. only 2
- B. only 3
- C. only 1 & 2
- D. only 1

49. Which of the following series will be printed for the given pseudocode

Integer i, j, k, n

Set j=1, k=1

for(each i from 1 to 5)

print k

j=j+1

k=k+j

end for

A. 2 4 6 8 10

B. 13 6 10 15

C. 1 2 3 4 5

D. 1 1 2 3 5

50. What will be output?



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```
integer fun(int a)
if(a>0)
return a+fun(a-1)
else
return 0
```

A.3

B.4

C.5

D.6

51. Write the output of the following:

```
Integer a,b,c
```

```
Set b=10,a=1
```

```
if(0)
```

```
    a=a-1
```

```
Else
```

```
    a=b+1
```

```
    b=a-1
```

```
    a=a-1
```

```
End if
```

```
print a
```

A. 3

B. 5

**C.10**

D.11

52. Write the output of the following:



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```
Integer a  
String str1  
Set str1="goes"  
a=stringLength(str1)  
print(a^1)
```

- A. 0
- B. 3
- C. 4
- D. 5

53. Which of the following application can you use hashing?

- 1. To construct a message authentication code
- 2. For Timestamping
- 3. For detecting cycle in a graph

Choose the correct answer from the options given below

- A. only 1 & 2
- B. only 1
- C. only 1 & 3
- D. only 2 & 3

54. If you are using DFS for traversing an unweighted graph, then which is true?

- 1. It produces the minimum spanning tree
- 2. It produces all pair shortest path tree

choose the correct one:

- A. only 2 is true
- B. only 1 is true
- C. Both are true



D. Both are false

55. Which of the following application can you use.....

1. To construct a message authentication code

2. For Timestamp

3. for detecting cycle in a graph

choose the correct one?

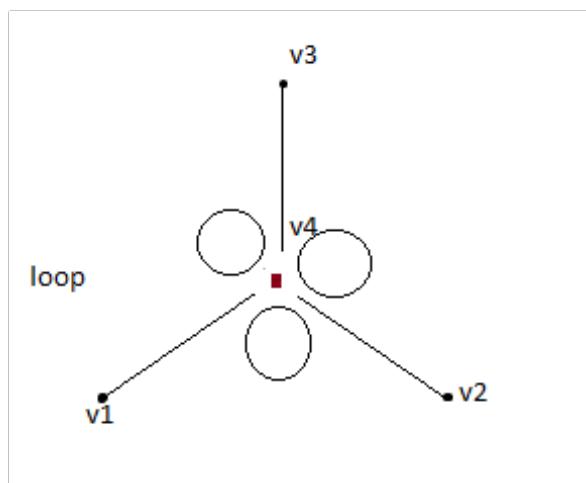
A. only 1 & 2

B. only 1

C. only 1 & 3

D. only 2 & 3

56. Find out the sum of the degree of vertices in the pseudocode as shown in the image.



A. 12

B. 16

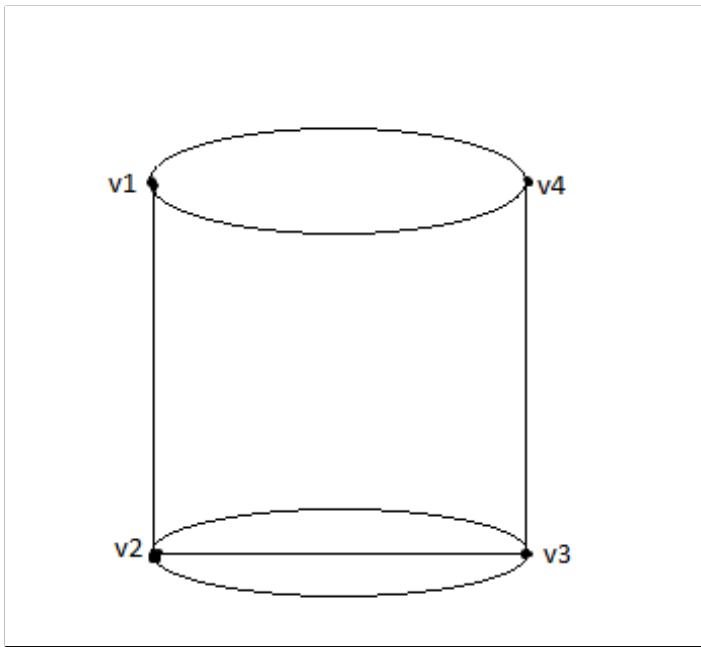
C. 8

D. 15

57. Find out the sum of the degree of vertices in the graph.



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A. 14

B. 12

C. 16

D. 8

## capgemini psuedocode new

### Test Summary

- No. of Sections: I
- No. of Questions: 135
- Total Duration: 100 min

### Section I - psuedo code

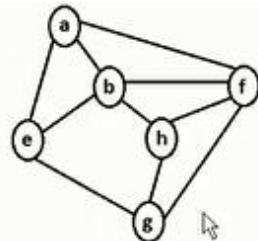
#### Section Summary

- No. of Questions: 135
- Duration: 100 min

#### Additional Instructions:

None

Q1. 1. Consider the following graph:



Which of the following sequences are depth first traversals of the above graph?

1. a b e g h f
2. a b f e h g
3. a b f h g e
4. a f g h b e

choose the correct answer the options given below

only 1,2 and 4

only 2,3 and 4

only 1,3, and 4

only 1 and 4

Q2.

What will be the output of the following pseudocode a=2?

```
1.fun(int a)
2.    if(a < 1 )
3.        return
4.    else
5.        Print a
6.        fun(a-1)
7.        Print a
8.    Return
```

A. 1 2

B. 2 1

C. 2 1 1 2

D. 3 2 1 1 2 3

Q3.

4) Records are randomly distributed by a hash function in a space that can hold N number of records. The probability that the mth record is the first record to result in a collision is

A.  $(N-1)(N-2)\dots(N-(m-1))/(m-2)]/N^{M-1}$

B.  $O[(N-1)(N-2)\dots(N-(m-2))(m-1)]/NM$

C.  $[(N-1)(N-2)\dots(N-(m-1))(m-2)]/NM$

D.  $(N-1)(N-2)\dots(N-(m-2))(m-1)]/NM-1$

Q4.

Consider a complete undirected graph with vertex set {0, 1, 2, 3, 4}. Entry  $W_{ij}$  in the matrix  $W$  below is the weight of the edge  $\{i, j\}$ . What is the minimum possible weight of a spanning tree  $T$  in this graph such that vertex 0 is a leaf node in the tree  $T$ ? in this graph such that vertex 0 is a leaf node in the tree  $T$ ?

$W = \begin{matrix} 0 & 1 & 8 & 1 & 4 \\ 1 & 0 & 1 & 2 & 4 \\ 8 & 1 & 0 & 7 & 3 \\ 1 & 4 & 7 & 0 & 2 \\ 4 & 9 & 3 & 2 & 0 \end{matrix}$

A. 8

B. 7

C. 9

D. 10

Q5.

Consider an unsorted array  $A[1\dots n]$  with  $n$  distinct values the following algorithm can be used to search a given  $x$  in that array.

1. choose a  $k$  uniformly at random from  $1\dots n$ ;

2. if  $A[k]=x$  then stop else Goto 1;

Assume that  $x$  is present in the array  $A$ , what will be the expected number of comparisons required by the algorithm before it terminates?

A.  $n$

B.  $2n$

C.  $n-1$

D.  $n/2$

Q6.

Consider the following fragment. Which of the following statements will be executed in this case?

1. Integer  $x = 10, y=3$  and  $z=7$  ;
2. if ( $x / y \#$ )
3.     if  $y > S1$
4.     else  $S2$
5.     else  $S3$

A.Statement s3 will be executed

**B. Statement s1 will be executed**

C.Statement s2 will be executed

D.None of the mentioned options

Q7.

Consider the following pseudocode. How many multiplications are performed here?

1. M=2
2. for i=1 to N do
3.     for j= i to N do
4.         for k=j+1 to N do
5.             M=M\*3
6.         End for
7.     End for
8. End for

A. One sixth of the product of the 3 consecutive integers

B. One third of the product of the 3 consecutive integers

C. Half of the product of the 3 consecutive integers

D. None of the mentioned options

Q8.

Find out the number of interchange needed to convert the given array into max-heap.

89,19,50,17,12,15,2,5,7,11,6,,9,100

A.5

**B.3**

C.2

D.4

Q9.

Four matrices Ay, Ay, Az and A, of dimensions a x b, b x c, c x d and d x e respectively can be multiplied in several ways with the different number of total scalar multiplications.

If a = 10, b = 100, c = 20, d = 5 and e = 80, then at least how many scalar multiplications are required here?

A. 44000

B. None of the mentioned options

**C. 19000**

D. 80000

Q10.

How many leaf nodes are present in a binary tree having a depth H?

A.  $2 + 1$

B.  $2^H$

C.  $2^{H+1} + 1$

D.  $2^{H-1} - 1$

Q11.

Identify the point that is NOT true with respect to a stack.

A. All the mentioned options are correct

B. It is not possible to insert or remove elements anywhere else except the top of the stack

C. Stack supports LIFO order of deletion of elements

D. Stack is a dynamic set where elements are removed in the reverse order of their insertions

Q12.

Identify the point that is NOT true with respect to a stack.

A. All the mentioned options are correct.

B. Stack supports LIFO order of deletion elements

C. Stack is a dynamic set where elements are removed in the reverse order of the insertions

D. It is not possible to insert or remove elements anywhere else except top on the stack

Q13.

If a binary tree has 10 nodes then what is the height of the tree?

A. 9

B. 11

C. 12

D. 3

Q14.

If a node having two children is deleted from a binary tree, it is replaced by its:

A. None of the mentioned options

B. Preorder predecessor

**C. Inorder successor**

D. Inorder predecessor

Q15.

If the address of  $A[1][1]$  and  $A[2][1]$  are 1000 and 1010 respectively and each element occupies 2 bytes then the array has been stored in \_\_\_\_\_ order.

A.matrix major

B.None of the mentioned options

C.Column major

**D.row major**

Q16.

Information about which of the following options is not present in the adjacency matrix representation of a graph?

**A. Parallel edges**

B. Nodes

C. Direction of edges

D. Edges

Q17.

Let A, B, C, D, E be sorted sequences having lengths 20, 24, 30, 35, 50 respectively, they are to be merged into a single sequence by merging together two sequences at a time. How many comparisons are needed in the worst case by the optimal algorithm?

A. 544

B. 256

C. 423

**D. 358**

Q18.

Maximum height of an AVL tree with 7 nodes is:

A. 6

B. 5

C. 3

D. 4

Q19.

Maximum possible number of nodes in the binary tree at level 5 is:

A. 31

B. 16

C. 30

D. 28

Q20.

Suppose a queue is implemented using a linked list and its front node and rear node are tracked by two reference variable . which of these reference variables will change during an insertion into a NONEMPTY queue?

A. Both will change

B. **Only the rear will change**

C. Only the front will change

D. None of them will change

Q21.

The minimum number for multiplications and additions required to evaluate the polynomial  $P=4x^3+3x^2-15x+45$  is:

A. 4 & 2

B. 3 & 4

C. **3 & 3**

D. 6 & 3

Q22.

The number of values that can be held by an array arr[-1 ....n, 1 ...n] is:

A. n

B.  $n^2$

C.  $n(n+1)$

D.  $n(n+2)$

Q23.

What will be the output of the following pseudocode?

1. Declare variable x,y, and i
2. Set x=0 and y=1
3. for(i=1;i<=4;i=i+1)
4.     print x
5.     x=x+y
6.     y=x/y
7. End for loop

A. 0 1 3 8

B. 1 0 2 4

C. 0 1 2 3

D. 0 1 2 4

Q24.

What will be the output of the following pseudocode?

1. int a=1
2. while (++a <=5)
3. print a++

A. 2 4 6

B. 1 3 5

C. 2

D. 2 4

Q25.

What will be the output of the following pseudocode ?

1. Integer a,b,c
2. Set a=10,b=20
3. for(c=a;c<=b;c=c+2)
4.     a=a+c
5.     b=b-a+c
6.     if(a > 10)
7.         Print a
8.     Else
9.         Print b
10.   End if
11. End for

A. 20

B. 20 32

C. 22

D. 20 23

Q26.

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

1. declare I,j,n,pos
2. Repeat for  $j=pos$  to  $n-1$
3.   Set  $a[j]=a[j+1]$
4. End for loop
5.  $n=n-1$ ;
6. Display the new array
7. End

A. 3 2 4 6 1 2

B. 3 4 1 2

C. 3 6 1 2

D. 3 4 2 1 2

Q27.

What will be the output of the following pseudocode for input 4?

1. Int sum(int num)
2. {
3. If(num is not equal to 0)
4.   return num+num\*sum(num-1)
5. Else
6. return num 7.
7. }

A. 26

B. 15

C. 44

D. 64

Q28.

What will be the output of the following pseudocode for  $n = 2$ ?

```
int fun( int n);
if( n EQUALS 4)
return n;
else
return 2 * fun ( n + 1);
```

A. 8

B. 2

C. 4

D. 16

Q29.

What will be the output of the following pseudocode for the input  $x=22$  and  $y=3$ ?

- I. Start

2.. Declare x, y, m, n  
3. Set m = x and n = y  
4. while m not equal to n then  
5. if m greater than n  
6. m = m - 1  
7. otherwise  
8. n = n - 1  
9. End if  
10. End while  
11. Print n

A. 12

B. 3

C. 4

**D. None of the mentioned options**

Q30.

What will be the output of the following pseudocode for x=11,y=5?

```
1.fun(int x,int y)
2.if(x==0)
3.    return y
4.else
5.    return fun(x-1,x-y)
```

A.71

B.17

**C. None of the mentioned option**

D.23

Q31.

What will be the output of the following pseudocode?

```
int a = 15, b = 45, C = 9, i;
if ((o> (a + b )) OR a < (5* c)).
for(i = 1 to3)
C = C* 2
End for loop
else
while (a > 6)
b = b + 1
a = a- 4
end while loop
Print b, C
```

A. 41,4

**B. 45, 72**

C. 48,9

D. 45,9

Q32.

What will be the output of the following pseudocode?

```
int n = 343, r, s=0, h;
```

```

set m = n ;
while(n is not equal to 0)
    r = n mod 10
    S = S* 10 + r;
    n = n / 10;
end while loop ;
print s ;
if(n is equal to m)
    print m + 1
else
    print m

```

**A.343 343**

**B.340 342**

**C.300 342**

**D.345 344**

Q33.

What will be the output of the following pseudocode?

```

Integer a,b;
Set a = 125, b = 122;
if( (a + b) MOD 2 NOT EQUALS 0 )
    while ( a > 0)
        b = a +b;
        a = a / 5 ;
    End ;
    while
        Print b;
    else
        a = a - b ;
        a = a / 2;
        Print a ;
    end if;

```

**A.234**

**B.278**

**C.274**

**D.276**

Q34.

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

```

**A. 6**

**B. 7**

C. 5

D. 12

Q35.

What will be the output of the following pseudocode?

1. char str[10] = "India", ch = 'n';
2. int ind[10], loop, j = 0 ;
3. for( loop = 0; str[loop] != '\0'; loop=loop+1)
4. if ( str[loop] == ch );
5. int d[j++] = loop ;
6. for( loop = 0; loop <j; loop=loop+1);
7. Print ind[loop];

[Note: j++ = j+1 and 10 = NULL]

A. 03

B. 1

C.0

D. 4

Q36.

What will be the output of the following pseudocode?

1. Declare Integer c, d,
2. Integer array[6]={23, 45, 67, 12, 13 25}
3. for(c=0; c < 5; C++)
4. for(d=0; d < 5-C-1 ; d++)
5. if(array[d]>array[d+1])
6. r = array[d];
- 7.array[d] = array[d+1]
8. array[d+1]=r
- 9.end if
- 10.end for
- 11.end for
- 12.for(C =0; c<5; C++)
13. print array[C]
14. end for

A. 67 45 23 13 12

B.12 13 23 45 67

C. 67 45 23 13

D. 45 67

Q37.

What will be the output of the following pseudocode?

1. int m = 3, n = 2, O = 4 ;
- 2.while (n > 0)
3. M = m\*o+n;
4. n = n - 1
- ;5. end
- while loop
6. O = O + M ;
- 7.print m, n, o;

A. 32 12 41

**B. 3 2 4**

**C. 57 0 62**

**D. 2 1 6**

Q38.

What will be the output of the following pseudocode?

```
1. Integer a , b  
2. Set a = 2, b = 50  
3. while( b )  
4. a = b MOD 2 + a  
5.if ( a MOD 3 IS EQUAL TOO)  
6.Print (a)  
7.else  
8.Print (b - 1)  
9.Print (0 - 1) b = b / 5  
10.a = a + 1  
11. end while
```

**A. 50 3 2**

**B. 49 3 1**

**C. 3 3 3**

**D. 50 10 2**

Q39.

What will be the output of the following pseudocode?

```
1. Input a=6,b=9  
2. Integer n  
3. Set res=1  
4. If(a>10 && b<a)  
5.     Print Error message  
6. Else  
7.     for(n=a;n<b;n=n+1)  
8.         Res=res*n  
9.     End for loop  
10. Print res
```

**A.124**

**B.234**

**C.336**

**D.123**

Q40.

What will be the output of the following pseudocode?

```
1. Int a=15,b=45,c=9,i  
2. If((c>(a+b))OR a<(5*c))  
3.     for(i=1 to 3)  
4.         c=c*2  
5.     End for loop  
6. Else  
7.     While(a>6)  
8.         b=b+1  
9.         a=a-4  
10.    End while loop  
11. Print b,c
```

A. 45 72

B. 41 4

C. 48 9

D. 45 9

Q41.

What will be the output of the following pseudocode?

1. Int a=3,b=2
2. If(a+b <7)
3. a=a\*0+b
4. Else
5. for(i=1 to 4)
6. a=a+i
7. End for loop
8. Print a,b+1

A. 2 3

B. None of the options

C. 4 3

D. 3 3

Q42.

What will be the output of the following pseudocode?

1. Integer a=1,b=2
2. for(int i=0;i<=6;i=i+2)
3. a=a+b+i
4. a=a+b
5. b= a-b
6. Print b
7. End for

A. 3 10 2771

B. 3 10 2770

C. 3 7 10

D. 3 9 2370

Q43.

What will be the output of the following pseudocode?

1. Integer l,f,num
2. Set f=l,num=8
3. Repeat for i=1 to num
4. f=f\*i
5. End loop
6. Print f

A. 0

**B. 40320**

**C. 8**

**D. 1**

Q44.

What will be the output of the following pseudocode?

```
1.int p=2,q=6,r=9,i  
2.if(6 > p + q)  
3.    for(i=1 to 3)  
4.        p=p+q  
5.        q=q+1  
6.    end for loop  
7.r=p-q  
8.print p,q, and r
```

**A.23 9 9**

**B.32 10 22**

**C.2 6 9**

**D.15 8 7**

Q45.

What will be the output of the following pseudocode?

```
1.int p=2,q=6,r=9,i  
2.if(r>p+q)  
3.    for(i=1 to 3)  
4.        p=p+q  
5.        q=q+1  
6.    end for loop  
7.r=p-q  
8.print p,q and r
```

**A.32 10 22**

**B.23 9 9**

**C.15 8 7**

**D.23 9 14**

Q46.

What will be the output of the following pseudocode?

```
1.integer i,j,sum,n  
2.Set sum=0,n=7  
3.Repeat for i=1 to n  
4.    sum=sum+(i *i)  
5.End loop  
6.print sum
```

**A.104**

**B.64**

C.8

D.49

Q47.

What will be the output of the following pseudocode?

Input: Two n-bit integers x and y, where  $y > 1$

```
if x=0 then
    return (q,r)=(0,0)
else
    set(q,r)=divide([x/2],y);
    q=2*q,r=2 * r;
    if x is odd then
        r=r+1
    end
    if r > y then
        r=r-y,q=q+1
    end
    return(q,r)
end
```

A. The remainder of 'x divided by y' operation

B. The quotient and remainder of 'x divided by y' operation

C. None of the mentioned options

D. The quotient of 'x divided by y' operation

Q48.

What will be the output of the following pseudocode?

```
n = 1
Integer a, b, c, ai, b1, c1, a2, b2, c2
Set a1 = 2, b1 = 45 and c1 = 36
Set a2 = 11, b2 = 26 and c2 = 30
C = C1 + c2
b = c/ 60
C = C mod 60
b = b + b1 + b2
a = b / 60
b = b mod 60
a = a + a1 + a2
Print a:b:C
```

A.14:12:1

B. 13:12:66

C.13:71:66

D.14:12:6

Q49.

What will be the output of the following pseudocode?

1. Integer result and set num1=5,num2=7,num3=8
2. If(num1>num2)
3.     If(num1>num3)
4.         result=num1
5.     Else
6.         result=num3
7. Else if(num2>num3)
8.         result =num2
9. Else

10. result=num3  
11. Print result

A. 4

B. 7

C. None of these mentioned options

D. 5

Q50.

What will be the probability of selecting a random node from a given singly linked list

A. $2(N-1)/N$

B. $2N-1$

C. $1/N$

D. $N/2(N-1)$

Q51.

What will be the output of the following pseudocode ?

```
int m = 3, n = 2, o = 4
while ( n > 0)
m=m*0+n ;
n = n - 1
end while loop
o = o + m
print m, n, o
```

3 2 4

2 3 4

2 1 6

1 0 5

Q52.

What will happen if there is no base criteria mentioned in a recursive program?

A.it will obtain a progressive approach

B.it will not be executed

**C.It will execute infinitely**

D.It will execute until all conditions match

Q53.

What will be the output of the following pseudocode for the input n=6745?

- 1.Start
- 2.Read n
- 3.Assign the given integer to a new variable q and set rn =0
- 4.r=q mod 10
- 5.rn = rn \* 10 +r;
- 6.q=q/10
- 7.Repeat steps 4 to 6 while q > 0
- 8.Print rn

A. 7645

**B. 5476**

C. 4567

D. 3423

Q54.

What will be the output of the following pseudocode if we call fun l() and value of n is 5?

- 1.fun(int n, int a)
2. If(n == 0) return a
3. return fun (n - 1,n \* a)
- 4.fun l(int n)
5. return fun(n,1)

A. 120

B. 24

C. 16

D. 15

Q55.

What will be the output of the following pseudocode?

1. Integer i,j,sum,n
2. Set sum=0,n=7
3. Repeat for i=1 to n
4.   Repeat for j=1 to n-i
5.       sum=sum + j
6.   End loop
7. End loop
8. Print sum

A. 147

B. 35

**C. 56**

D. 84

Q56.

Which is the following is a direct search technique?

A.Hashing

B.Tree search

**C.Binary search**

D.Linear search

Q57.

Which of the following applications use a stack?

A. A paranthesis balancing program

B.Keeping track of local variables at runtime

C.Syntax analyzer for a compiler

**D.All of the mentioned options**

Q58.

Which of the following data structure may give overflow error even though the current number fo elements in its less than its size?

**A. Simple queue**

B. Priority queue

C. None of mentioned options

D. Circular queue

Q59.

Which of the following data structure may give overflow error, even though the current number of elements in it is less than its size?

A. None of the mentioned options

B. Priority queue

C. Simple queue

**D. Circular queue**

Q60.

Which of the following graph analysis algorithms would be applied for finding shortest path in a weighted graph. Weights and can also be used for finding transitive closure of a relation R?

A.Dijkistra's Algorithm

**B.Prim's Algorithm**

**C.Meshy's Algorithm**

**D.Floyd's Algorithm**

Q61.

Which of the following statements is true regarding linked list implementation of a stack?

A.The link list can not be implemented using stack

B. In a push operation if new nodes are inserted at the end,then in pop operation nodes must be removed from the beginning

C.In a push operation ,if new nodes are inserted at the beginning of a linked list then in operation ,nodes must be removed from at the end

**D.None of the mentioned options**

Q62. The running time  $T(n)$ . where "n" is the input size of a recursive algorithm is given as follows:

$$T(n) = c + T(n-1), \text{ if } n > 1 \\ T(n) = d, \text{ if } n \leq 1$$

The order of this algorithm is:

$n^3$

$n$

$n^n$

$n^2$

Q63. what will be the necessary condition to get the location of the desired element from a given array using the following algorithm?

- I. IF LOC = -1 do ITEM NOT FOUND
2. Do\_Something(DATA, N, ITEM, LOC)
3. I. Initialize counter set LOC= , LOW=, HI= N-1
4. 2. [Search for Item] Repeat while LOW < HI
5. 2.1 MID=(LOW+HI)/2,
6. 2.2 IF ITEM= DATA[MID] do
7. 2.3 LOC=MID
8. 2.4 Return LOC
9. 2.5 IF ITEM < DATA [MID]
10. 2.5.1 HI = MID-1
11. 2.6 ELSE
12. 2.6.1. LOW= MID+1

The elements in the array should be unsorted

No pre-condition is required for the algorithm to work properly

The array should contain more than one element

**The elements in the array should be sorted**

- Q64. Which of the following is a type of sorting which relatively passes through a list to exchange the first element with any element less than it and then repeats with a new first element?

Heap sort

**Quick sort**

Bubble sort

Merge sort

- Q65. 1) 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"
```

**Pass**

Fail

0

I

- Q66. An implementation of a queue Q, using two stacks S1 and S2, is given below:

```
1. void Insert(Q,x)  
2. {  
3. push(S1,x);  
4. }  
5. void delete(Q,x)  
6. {  
7. If(stack-empty(S2)) then  
8. if(stack-empty(S1)) then  
9. {  
10. print("Q is empty");  
11. return;  
12. }  
13. else while(' stack-empty(S1))  
14. {  
15. x=pop(S1);  
16. push(S2,x);  
17. }
```

18.  $x = \text{pop}(S2);$

19. }

Let "n" insert and "m" delete operations to be performed in an arbitrary order on an empty queue air. Let "x" and -r be the number of push and pop operations performed respectively in the process. Which of the given options is true for all n?

**n + m < x < 2n and 2m < n + m**

2m < x < 2n and 2m < y < n+m

2m < x < 2n and 2m < y < 2n

n+m < x < 2n and 2m < y < 2n

Q67. consider a list of 12 numbers:

44,33,11,55,77,90,40,60,99,22,88,66

If we try to sort the list using quick sort by taking 44 as pivot element, then which of the following list will be obtained after the fourth iteration?

**22,33,11,40,44,90,77,60,99,55,88,66**

22,33,11,55,77,90,40,60,99,44,88,66

22,33,11,77,44,40,90,60,99,55,88,66

22,33,55,11,77,90,40,60,99,44,88,66

Q68. Consider following given algorithm and identify the task performed by this.

```
1. bstree(*tree)
2. {
3. while((tree->left != null) || (tree->right != null))
4. {
5. if(tree->left < tree->root)
6. bstree(tree->left);
7. else
8. return(!);
9. if(tree->right > tree->root)
10. bstree(tree->right);
11. else
12. return(1);
13. }
14. return(0);
15. }
```

None of the mentioned options

Bubble sort

**Tests whether a Binary Tree is a Binary Search Tree**

Prim's algorithm

- Q69. Consider H as a hashing function which is used to hash n keys into a table of size m. where  $n \leq rm$ . the expected number of collisions involving a particular key x is:

less than n

C less than  $n/2$

**n less than 1**

c less than m

- Q70. consider the functions and their complexities:

$$F1(n) = 2n$$

$$F2(n) = n(3/2)$$

$$F3(n) = n \log n$$

$$F4(n) = n(\log n)$$

Which among the following options correctly represents the increasing order of asymptotic complexity of the functions F1,F2,F3,F4 respectively?

**F3 < F2 < F4 < F1**

None of the mentioned options

F3 < F2 < F1 < F4

F2 < F3 < F1 < F4

- Q71. Consider the main function and fun1() implementations. What will be the output of the following pseudocode?

1. Int a
2. Int main()
3. While(a)
4.     fun1()
5.     main()
6.     Print flower
7. Int fun1()
8.     Print lily

Flower lily

Lily

Infinite loop

Flower

Q72. For which of the following conditions sir will be printed?

X=10,y=20,z=30;

if ( x > z)

2. if ( z < y)

3. Print A

4. else

5. Print B

6. end if

7. else

8. if (y > z )

9. Print C

10. else

11. Print D

12. end if

13. end if

y > z

x>z>y

z > x

x>y>z

Q73. Given expression is an example of which type of notation?

(A + B) \*C

Prefix

Infix

Postfix

None of the mentioned options

Q74. How many edges are present in a complete binary tree with 16 leaf nodes?

28

32

30

Q75. How much time will be required to generate all the connected components in an undirected graph G with 'n' vertices and 'e' edges when the graph is represented by an adjacency list?

$O(e^2)$

$O(n)$

$O(e+n)$

$O(e)$

Q76. If a node having two children is deleted from a binary tree it is replaced by its ?

in-order predecessor

pre order predecessor

**in-order successor**

None of the mentioned options

Q77. If L is the left node, M is the root node and R is the right node of a binary tree then an L-M-R traversal can be termed as :

Post order traversal

**pre order traversal**

None of the mentioned options

In – order traversal

Q78. If the address of A[1][1] are 1000 and 1010 respectively and each elements occupies 2 bytes then an array has been stored in \_\_\_\_\_ order

Matrix major

column major

**row major**

None of the mentioned options

Q79. Information about which of the following options is not present in the adjacency matrix representation of a graph?

Parallel edges

Nodes

Direction of edges

**Edges**

Q80. Records are randomly distributed by a hash function in a space that can hold  $N$  number of records . The probability that the  $m$ th record is the first record to result in a collision is:

$[(N-1)(N-2)\dots(N-(m-2))(m-1)]/Nm-1$

$[(N-1)(N-2)\dots(N-(m-1))(m-2)]/Nm$

$[(N-1)(N-2)\dots(N-(m-2))(m-1)]/N$

$[(N-1)(N-2)\dots(N-(m-1))(m-2)]/Nm-1$

Q81. The complexity of the insertion sort algorithm in worst case is:

$O(n^2)$

$O(n \log n)$

$O(n)$

$O(n-l)$

Q82. The number of values that can be held by an array arr(-l...n, l....n) is :

n

$n(n+2)$

$n(n+l)$

$n^2$

Q83. The order of an internal node in B+ tree index is the maximum number of children it can have ,suppose that a child pointer takes 6 bytes, the search field value takes 14 bytes, and the block size is 512 bytes.what is the order of an internal node ?

26

27

24

25

Q84. The prefix form of A-B/ (C • D ^ E) is:

-/ $\bullet^A$ CBDE

-A/B $\bullet$ C-DE

ABCD $\bullet^A$ DE

-A/BC $\bullet^A$ DE

Q85. what is the prefix form of an infix expression p+q-r\*t?

-+pq\*rt

None of the mentioned options

-+pqr\*t

+pq-\*rt

Q86. what will be the output of the following code for the input a=5 and b=6?

```
function do Something(input a, input b)
{
if (b==1)
return 0;
else
return a + do something(a, b-1);
}
```

30

25

18

125

Q87. What will be the output of the following code?

1. Integer a,b
2. Set a=125,b=122
3. If((a+b) MOD 2 NOT EQUALS 0)
4.     While(a>0)
5.         b=a+b
6.         a=a/5
7.     End while
8.     Print b
9. Else
10.      a=a-b
11.      a=a/2
12.     Print a
13. End if

2

234

278

27

Q88. What will be the output of the following pesudocode?

1. Integer i=0
2. i=i+12
3. print i
4. if(i<60)
5.     goto line number 2
6. Else
7.     Print i+1
8. End if

None of the mentioned options

0 12 24 25

12 24 36 48 60 61

0 12 0 12 13

Q89. what will be the output of the following pseudo code ?

1. Integer x
2. Set x = 0
3. if(x IS EQUAL TO 1)
  - 4.     if(x IS EQUAL TO 3)
5. Print "Inside if"
6. else
7. Print "Inside else if"
8. end if
9. else
10. Print "Inside else"
11. end if

Inside else

Inside else if

Inside if Inside else

Inside if

Q90. What will be the output of the following pseudo code?

1. Integer a, b, v, c
2. Set a = 5, b = 6, v = 90
3. while(v > 8)
  - 4. a = a + v
  - 5. c = (a + b) mod 10
  - 6. while(c > 9)
  - 7. b = b - a
  - 8. c = c - 1
  - 9. end while
10. v = v / 2
11. end while
12. Print b, c

16 82

150 12

6 9

no output

Q91. what will be the output of the following pseudo code?

```
Integer a ,b  
Set a = 10, b = 7  
for(int i = 1; i<= 5; i++)  
a =a+i+ b  
while ( a > 6 )  
a = a + b  
b = b - 1  
a = a - 1  
end while  
Print a  
End for
```

3 2 1 0 -3

3 -3 -8 -15

-6 -13 -19-24-28

**3 -3 -8 -12-15**

Q92. What will be the output of the following pseudo code?

```
Integer result and set num1=5, num2=7, num3=6  
if( num1 > num2)  
if(num1 > num3)  
result = num1  
else  
result = num3  
else if(num2 > num3)  
result = num2  
else  
result = num3  
Print result
```

7

none of the mentioned options

5

4

Q93. What will be the output of the following pseudo code?

```
int p = 4, q = 7, r = 10  
p = q Mod r  
q=q+p  
r = r + q  
Print p, q and r
```

7 11 17

1421

71424

41117

Q94. What will be the output of the following pseudo code?

```
Integer n, rev, rem, org  
Set n = 61206, rev = 0  
Set org = n 4. Repeat while n NOT EQUALS 0  
rem = n Mod 10  
rev = rev * 10 + rem  
n = n / 10  
End while  
If(org IS EQUAL TO rev)  
Print rev  
Else  
Print (org - rev) / 6  
End If
```

61206

0

60216 14

165

Q95. What will be the output of the following pseudo-code if we call fun() and the value of n is 5?

```
fun(int n, inta)  
if ( n == 0) return a  
return fun ( n- 1, n * a)  
fun1( int n)  
return fun( n, 1)
```

15

120

16

24

Q96. What will be the output of the following pseudo-code n=7?

```
Integer t, j, sum, n  
Set sum=0, n=7:  
Repeat for i = 1 to n  
sum= sum + ( i * i)  
End loop  
Print sum
```

64

49

8

140

Q97. What will be the output of the following pseudo-code?

```
1 int p = 2, q = 6, r = 9, i  
2  
3 if(r>p+q)  
4  
5 for (i = 1 to 3 )  
6  
7 p=p+q  
8  
9 q = q + 1  
10  
11 end for loop  
12  
13 r = p -q  
14  
15 print p, q and r
```

23 9 9

32 10 22

23 9 14

15 8 7

Q98. What will be the output of the following pseudo-code?

Declare variable x, y and i  
Set x =0 and y = 1  
for(t=1; i<=4; i=i+1)  
print x  
x = x + y  
y = x /y  
End for loop

0 1 3 8

0 1 2 4

1 0 2 4

0 1 2 3

Q99. What will be the output of the following pseudo-code?

```
Integer a = 1, b = 2
for ( int i = 0; i<= 6;i= i + 2
a =a+b+ i.
a = a + b
b = a - b
Print b
end for
```

3 10 27 70

3 10 27 71

3 9 23 70

3 7 10

Q100. What will be the output of the following pseudo-code ?

```
int i=5,j=7
if (i+j > 5)
j=i + 2
if ( j < 5 )
print i.
else
print j
Else
print i+l
```

5

7

12

6

Q101. What will be the output of the following pseudocode for a = 3?

```
1 void fun(int a)
2 if(a<1)
3 return;
4 else
5 print a
6 fun(a-2)
7 print a
8 return
9 |
```

210

3113

12

2112

- Q102. What will be the output of the following pseudocode for a given array  $a[5] = 3, 4, 6, 1, 2$  and  $pos=2$ ?

[Note: n = the size of the array i.e. 5 and starting array index is 0)

Declare i, j, n, pos

Repeat for j=pos to n-1

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

End for loop

$n=n-1;$

Display the new array

End

324612

3412

3612

34212

- Q103. What will be the output of the following pseudocode for input 134?

1. 1. int funl (int num)

2. 2. static int a = 0

3. 3. if ( num > 0)

4. 4. a=a+1

5. 5. funnum/10)

6. 6. else

7. 7. return a

Note:[ Static variables have a property of preserving their value even after they are out of their scope]

3

8

431

2

- Q104. What will be the output of the following pseudocode for input 7?

1. Read the value of N

2. Set m=1, T=0

3. If m>N

4. Go to line no.9

5. Else

6. T=T+m

7. m=m+1

8. go to line no.3

9. Display the value of T

10. Stop

72

56

28

Q105. What will be the output of the following pseudocode for input a = 8 and b = 9?

```
function(input a, inputb)
if(a < b)
return function(b,a)
else if(b != 0)
return(a+function(a,b-1))
else
return 0
```

88

56

None of the mentioned options

72

65

Q106. What will be the output of the following pseudocode for num=5456?

```
Start
Take a variable num, j, temp and an array digit[ ]
set k=0, len=0, n=num
Repeat while n is not equal to 0
digit[k]=n mod 10
set n=n/10
Set k=k+1
End While
len=k
Set k=0
Repeat for k to len-1
Check If digit[k] is greater than digit[k+1]
Set temp=digit[k]
Set digit[k]=digit[k+1]
Set digit[k+1]= temp
Repeat for j=0 to len
Set num= num+ (digit[j]* pow(10,k))
End for
End If
End For
Print num
Stop
```

7676

28787

5456

**None of the mentioned options**

Q107. What will be the output of the following pseudocode for the input x=22 and y=3?

```
Start
Declare x, y, m, n
Set m = x and n = y
while m not equal to n then
if m greater than n
  m = m - 1
Otherwise
  n = n - 1
End if
End while
Print n
```

4

3

12

None of the mentioned options

Q108. What will be the output of the following pseudocode if n = 40 and LIMIT = 1000?

```
1. Integer fun2(Integer n)
2. if( n <= 0)
3.   return 1
4. end if
5. if ( n > LIMIT)
6.   return 2
7. end if
8. Print n
9. fun2(2 * n)
10. Print n
11. End function fun2()
```

40,80,160,320,640

40,80,120,240,480,960

640

**40,80,160,320,640,320,160,80,40**

Q109. 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
  set sum=+(i*i)
End loop
Print sum
```

204

49

8

64

Q110. What will be the output of the following pseudocode?

1. Integer a, b, c
2. Set a = 3, b = 5, c=1
3. a =a+b+c-8.
4. b = a+ c - 8
5. if ( a > b)
6. Print Fine
7. else
8. Print Thankyou

Thankyou

Fine Thankyou

Fine

Nothing will be printed

Q111. What will be the output of the following pseudocode?

1. Integer i, j
  2. for(i = 2; i < 25; in)
  3. for(j = 2; j <= (i/j); j++)
  4. if(!!(i MOD j))
  5. JUMP out of the loop
  6. end if
  7. if(j is greater than ( i/j ))
  8. Print i
  9. end if
- [Note: ! Operator here basically inverts true to false and false to true]

2 3 5 8 11 14 17 19 23

1 3 7 11 13 17 19 23 25

2 4 5 8 11 12 17 14 23

**2 3 5 7 11 13 17 19 23**

Q112. What will be the output of the following pseudocode?

1. Integer x,Y
2. Set x = 4,y=7
3. x = x +y
4. y = x -y

5.  $x = x + 4$
6. Print x,y

47

None of the mentioned options

11 4

15 4

Q113. What will be the output of the following pseudocode?

1. Integer x=1, y
2. for( each x from 1 to 9)
3. x = x + 1
4. end for
5. Print x

6

11

10

12

Q114. What will be the output of the following pseudocode?

1. Int a=18,b=4,i
2. If(a>b)
3.     If(a+b >14)
4.         Print a
5.     Else
6.         for(i=1 to 3)
7.             a=a+i
8.         End for loop
9.         Print a
10.         Print b

4

14

16

18 18 4

Q115. What will be the output of the following pseudocode?

1. Int p=4,q=7,r=10
2. p=q mod r
3. q=q+p
4. r=r+q
5. print p,q and r

7 11 17

7 14 21

7 14 24

4 11 17

Q116. What will be the output of the following pseudocode?

1. Integer a,b,count=0,countl=0

2. Set a=l,b=l

3. while(a<=5)

4. b=l

5. while(b<=5)

6. b=b+l

7. countl = countl + l

8. end while

9. a = a + l

10. count = count + l

11. end while

12. Print count, countl

5 25

24 5

5 5

25 5

Q117. What will be the output of the following pseudocode?

```
1.int m= 0, n=13, flag = 0, i  
2. m = n/2  
3. for (i = 2 to m)  
4. if (n mod i = 0)  
5. flag = 1  
6. go to line number9  
7. end if  
8. end for loop  
9. if( flag =0)  
10.      print 0  
11. else print 1
```

0

1

13

6

Q118. what will be the output of the following pseudocode ?

```
Integer n,rev,rem,orig  
Set n=61206,rev=0;  
Set orig=n  
Repeat 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
```

0

165

61206

60216

Q119. What will be the output of the following pseudocode

```
1. Integer x, y, z  
2. Set x = 10, y = 12, z = 12  
3. z = (x + y) /0 // Line 3  
4. if(z IS EQUAL TO 12)  
5. Print successful  
6. else  
7. Print unsuccessful
```

error at line 3

**Logical error**

unsuccessful

successful

Q120. What will be the output of the following pseudocode

```
1. Integer y , z , k , c  
2. Set y = 8, z= 3, k= 1  
3. if ( z + k < y )  
4. if( z MOD 2 NOT EQUALS 0  
5. c = y +z  
6. else  
7. c = y +k  
8. y=y+z+k+e  
9. else  
10. y = y+c+k  
11. end if  
12. Print y
```

21

8

23

20

Q121. What will be the output of the following pseudoocde?

```
1. Integer a,b  
2. Set a=10, b=7  
3. for(int i=1;i<=5;i++)  
4.     a=a+i+b  
5.     While(a>6)  
6.         a=a+b  
7.         b=b-1  
8.         a=a-1  
9.     End while  
10.    Print a  
11. End for
```

-6 -13-19-24-28

3 2 1 0 -3

3 -3-8-12-15

3-3-8-15

Q122. what will be the probability of selecting a random node from a given singly linked list?

I/N

2N-1

N/2(N-1)

2(N-1)N

Q123. What will be the output of the following pseudocode?

1. Int j= 41,k=37
2. j = j + 1
3. k= k-1
4. j=j/k
5. k=k/j
6. print k,j

36 1

1 1

1 36

42 36

Q124. What will be the output of the following pseudocode?

1. Integer a=1,b=2
2. for(int i=0;i<=6;i=i+2)
3.     a=a+b+i
4.     a=a+b
5.     b=a-b
6.     Print b
7. End for

3 10 27 71

3 10 27 70

3 7 10

3 9 23 70

Q125. what will happen if there is no base criteria mentioned in a recursive program?

it will not be executed

it will execute until all conditions match

**it will execute infinitely**

it will obtain a progressive approach

Q126. What will be the output of the following pseudocode a=1?

```
fun(int a)
if(a < 1 )
return
else
Print a
fun(a-1)
Print a
Return
```

1 1

1 2

2 1 1 2

3 2 1 1 2 3

Q127. Which of the following graph analysis would be applied for finding shortest paths it is a weighted graph and can also be used for finding transitive closure of a relation R?

Meshy's algorithm

Prim's algorithm

**Floyd's algorithm**

Dijkstra's algorithm

Q128. Which of the following is a direct search technique?

Tree search

Linear search

## Hashing

### Binary search

Q129. Which of the following is the correct pseudocode for validating the entered date is correct or not?

1. Input dd, mm and yy  
2. If yy>=1900 and yy<=9999  
3. If nm>=1 and mm<=12  
4. If (dd>81 and dd<=31) or (mm=1 and mn81 and mm=c. and mm87 and mm=5 and mm=10 and mm=12))  
5. Print Date is valid  
6. Use If (dd>=1 and dd<=30) or (mm=4 and mm=o and mm=9 and mm=11))  
7. Print Date is valid  
8. Else If (dd>=1 and dd<=28) or (mm=2))  
9. Print Date is valid  
10. Else If(dd=29 and m=2 or (yy%400=0 and (yy%4=0 and yy%108:=0)))  
11. Print Date is valid  
12. Else Print Day is invalid  
13. End If  
14. Else Print Month is invalid  
15. End If  
16. Use Print Year is invalid  
17. End If

1. Input dd, run and yy  
2. If yy>=1908 and yy<=9999  
3. If nm>=1 and mnc=12  
4. If (dd>=1 and dd<=31) and (mm=1 or mm=3 or mm=5 or mm=7 or mm=8 or m=10 or mm=12))  
5. Print Date is valid  
6. Else If (dd>=1 and ddc=30) and (mm=4 or mm=6 or mm=9 or mm=11))  
7. Print Date is valid  
8. Else If (dd>=1 and ddc=28) and (mm=2))  
9. Print Date is valid  
10. Else If(dd=29 and mm=2 and (yy%400=0 or (yy%4=0 and yy%100!=0)))  
11. Print Date is valid  
12. Else Print Day is invalid  
13. End If  
14. Else Print Month is invalid  
15. End If  
16. Else Print Year is invalid  
17. End If

1. Input dd, mm and yy  
2. If yy>=1900 and yy<=9999  
3. If mm>=1 and man  
4. If (dd>=1 or dd<=31) and (M7=1 or AM=3 or AM=5 or 1711=7 or M7=8 Or VVW16 or mm=12)) 5. Print Date is valid  
6. Else If (dd>=1 or dd<=30) and (mm=4 or mm=6 or mm=9 or mm=11))  
7. Print Date is valid  
8. Else If (dd>=1 or ddc=28) and (mm=2))  
9. Print Date is valid  
10. Else If(dd=29 or mm=2 and (yy%400=0 or (yy%4=0 and yy%100!=0)))  
11. Print Date is valid  
12. Else Print Day is invalid  
13. End If  
14. Else Print Month is invalid  
15. End If Le  
16. Else Print 'fear is invalid  
17. End If

None of the mentioned options

Q130. Which of the following would store the information of an array which is used in a program?

Activation record

System table

Symbol table

**Dope vector**

Q131. Which of the following operators can be prefix or postfix?

Increment and Decrement Operators

Bitwise Operators

**All of the mentioned options**

Cast Operators

Q132. What will be the output of the following pseudocode?

```
Integer a, b, c, d, e  
Set a = 20, b = 9, C = 88, d = 30  
e = c mod a  
a = a + b + e  
d= c mod a  
print d
```

37

14

12

0

Q133. What will be the output of the following pseudocode?

```
Integer num, x, y, count  
Set num = 85, count = 0  
x = num = 1  
y = x^ num  
y = y + 1  
while (y / 2) NOT EQUALS 0  
if(y MOD 2 NOT EQUALS 0)  
count = count + 1  
else  
y = y /2
```

```

if
    end while if (count)
Print "0";
Print y ;
else
    Print "I"
Print x;
end if

```

A. 33

B. 23

C. 43

**D. None of the mentioned options**

Q134. What will be the output of the following pseudocode?

```

Integer a , b
Set a = 2, b = 50
while( b>0);
a = b MOD 2 + a
if ( a MOD 3 IS EQUAL TO 0);
Print (a);
else
print(b-1)
    Print b = b / 5;
    a = a + 1
end while;

```

A. 49 31

B. 50 102

C. 3 33

D. 50 32

Q135. What will be the output of the following pseudocode?

```

1.int a=10,b=4,i
2.if(a>b)
3.    if(a + b > 14)
4.        print a
5.    else
6.        for( i= 1 to 3)
7.            a =a +i
8.        end for loop
9.        print a
10.else
11.    print b

```

A. 14

B. 10

**C. 16**

D. 4

## Answer Key & Solution

### Section I - psuedo code

Q1

only 1,3, and 4

### Solution

No Solution

Q2

C. 2 1 1 2

### Solution

No Solution

Q3

A.  $(N-1)(N-2)\dots(N-(m-1))/(m-2)]/N^{M-1}$

### Solution

No Solution

Q4

D.10

### Solution

No Solution

Q5

A.n

### Solution

No Solution

Q6

B. Statement s1 will be executed

### Solution

No Solution

Q7

A. One sixth of the product of the 3 consecutive integers

### Solution

No Solution

Q8

B.3

### Solution

No Solution

Q9

C. 19000

**Solution**

No Solution

Q10

D.  $2^{H-1} - 1$

**Solution**

No Solution

Q11

A. All the mentioned options are correct.

**Solution**

No Solution

Q12

A. All the mentioned options are correct.

**Solution**

No Solution

Q13

D. 3

**Solution**

No Solution

Q14

C. Inorder successor

**Solution**

No Solution

Q15

D. row major

**Solution**

No Solution

Q16

A. Parallel edges

**Solution**

No Solution

Q17

D. 358

**Solution**

No Solution

Q18

C. 3

**Solution**

No Solution

Q19

A.31

**Solution**

No Solution

Q20

B. Only the rear will change

**Solution**

No Solution

Q21

C. 3 & 3

**Solution**

No Solution

Q22

A. n

**Solution**

No Solution

Q23

D.0 1 2 4

**Solution**

No Solution

Q24

D.2 4

**Solution**

No Solution

Q25

A. 20

**Solution**

No Solution

Q26

B. 3 4 | 2

**Solution**

No Solution

Q27

D. 64

**Solution**

No Solution

Q28

D. 16

**Solution**

No Solution

Q29

B. 3

**Solution**

No Solution

Q30

C. None of the mentioned option

**Solution**

No Solution

Q31

B. 45, 72

**Solution**

No Solution

Q32

A. 343 343

**Solution**

No Solution

Q33

B. 278

**Solution**

No Solution

Q34

**Solution**

No Solution

Q35

B. I

**Solution**

No Solution

Q36

B. 12 13 23 45 67

**Solution**

No Solution

Q37

C. 57 0 62

**Solution**

No Solution

Q38

B. 49 3 I

**Solution**

No Solution

Q39

C. 336

**Solution**

No Solution

Q40

A. 45 72

**Solution**

No Solution

Q41

A. 2 3

**Solution**

No Solution

Q42

B. 3 10 2770

**Solution**

No Solution

Q43

B. 40320

**Solution**

No Solution

Q44

C.2 6 9

**Solution**

No Solution

Q45

D.23 9 14

**Solution**

No Solution

Q46

A.104

**Solution**

No Solution

Q47

B. The quotient and remainder of 'x divided by y' operation

**Solution**

No Solution

Q48

A.14:12:1

**Solution**

No Solution

Q49

B. 7

**Solution**

No Solution

Q50

C.I/N

**Solution**

No Solution

Q51

**Solution**

No Solution

Q52

- C. It will execute infinitely

**Solution**

No Solution

Q53

- B. 5476

**Solution**

No Solution

Q54

- A. 120

**Solution**

No Solution

Q55

- C. 56

**Solution**

No Solution

Q56

- C. Binary search

**Solution**

No Solution

Q57

- D. All of the mentioned options

**Solution**

No Solution

Q58

- A. Simple queue

**Solution**

No Solution

Q59

- D. Circular queue

**Solution**

No Solution

Q60

D.Floyd's Algorithm

**Solution**

No Solution

Q61

D.None of the mentioned options

**Solution**

No Solution

Q62

$n^n$

**Solution**

No Solution

Q63

The elements in the array should be sorted

**Solution**

No Solution

Q64

Quick sort

**Solution**

No Solution

Q65

Pass

**Solution**

No Solution

Q66

$n + m < x < 2n$  and  $2m < n + m$

**Solution**

No Solution

Q67

22,33,11,40,44,90,77,60,99,55,88,66

**Solution**

No Solution

Q68

Tests whether a Binary Tree is a Binary Search Tree

**Solution**

No Solution

Q69

n less than 1

**Solution**

No Solution

Q70

F3<F2<F4<F1

**Solution**

No Solution

Q71

Infinite loop

**Solution**

No Solution

Q72

x>y>z

**Solution**

No Solution

Q73

Infix

**Solution**

No Solution

Q74

32

**Solution**

No Solution

Q75

$O(e+n)$

**Solution**

No Solution

Q76

in-order successor

**Solution**

No Solution

Q77

pre order traversal

**Solution**

No Solution

Q78

row major

**Solution**

No Solution

Q79

Edges

**Solution**

No Solution

Q80

$[(N-1)(N-2)\dots(N-(m-1))(m-2)]/Nm-1$

**Solution**

No Solution

Q81

$O(n^2)$

**Solution**

No Solution

Q82

$n(n+2)$

**Solution**

No Solution

Q83

26

**Solution**

No Solution

Q84

-A/B•C-DE

**Solution**

No Solution

Q85

-+pq\*rt

**Solution**

No Solution

Q86

30

**Solution**

No Solution

Q87

278

**Solution**

No Solution

Q88

12 24 36 48 60 61

**Solution**

No Solution

Q89

Inside else

**Solution**

No Solution

Q90

no output

**Solution**

No Solution

Q91

3 -3 -8 -12 -15

**Solution**

No Solution

Q92

7

**Solution**

No Solution

Q93

7 14 24

**Solution**

No Solution

Q94

165

**Solution**

No Solution

Q95

120

**Solution**

No Solution

Q96

140

**Solution**

No Solution

Q97

23 9 14

**Solution**

No Solution

Q98

0 1 2 4

**Solution**

No Solution

Q99

3 10 27 70

**Solution**

No Solution

Q100

7

**Solution**

No Solution

Q101

3 1 3

**Solution**

No Solution

Q102

3 4 1 2

**Solution**

No Solution

Q103

3

**Solution**

No Solution

**Solution**

No Solution

**Solution**

No Solution

None of the mentioned options

**Solution**

No Solution

**Solution**

No Solution

40,80,160,320,640,320,160,80,40

**Solution**

No Solution

**Solution**

No Solution

**Solution**

No Solution

2 3 5 7 11 13 17 19 23

**Solution**

No Solution

Q112

15 4

**Solution**

No Solution

Q113

10

**Solution**

No Solution

Q114

18 18 4

**Solution**

No Solution

Q115

7 14 24

**Solution**

No Solution

Q116

5 25

**Solution**

No Solution

Q117

0

**Solution**

No Solution

Q118

165

**Solution**

No Solution

Q119

Logical error

**Solution**

No Solution

Q120

21

**Solution**

No Solution

Q121

3 -3-8-12-15

**Solution**

No Solution

Q122

I/N

**Solution**

No Solution

Q123

36 I

**Solution**

No Solution

Q124

3 10 27 70

**Solution**

No Solution

Q125

it will execute infinitely

**Solution**

No Solution

Q126

I I

**Solution**

No Solution

Q127

Floyd's algorithm

**Solution**

No Solution

Q128

Hashing

**Solution**

No Solution

Q129

1. Input dd, run and yy
2. 2. If yy>=1908 and yy<=9999
3. 3. If nm>=1 and mnc=12
4. 4. If (dd>=1 and dd<=31) and (mm=1 or mm=3 or mm=5 or mm=7 or mm=8 or m=10 or mm=12))
5. 5. Print Date is valid
6. 6. Else If (dd>=1 and ddc=30) and (mm=4 or mm=6 or mm=9 or mm=11))
7. 7. Print Date is valid
8. 8. Else If (dd>=1 and ddc=28) and (mm=2))
9. 9. Print Date is valid
10. 10. Else If(dd=29 and mm=2 and (yy%400=0 or (yy%4=0 and yy%100!=0)))
11. 11. Print Date is valid
12. 12. Else Print Day is invalid
13. 13. End If
14. 14. Else Print Month is invalid
15. 15. End If
16. 16. Else Print Year is invalid
17. 17. End If

**Solution**

No Solution

Q130

Dope vector

**Solution**

No Solution

Q131

All of the mentioned options

**Solution**

No Solution

Q132

I4

**Solution**

No Solution

Q133

D. None of the mentioned options

**Solution**

No Solution

Q134

A. 49 31

**Solution**

No Solution

Q135

C. 16

**Solution**

No Solution

1. What will be the output of the following pseudocode for a=50?

```
Integer fun(Integer a)
```

```
    Integer b
```

```
    Set b=10
```

```
    return a-b
```

```
End function fun()
```

**ANS: 40**

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

```
Integer i, j, k, m
```

```
Set j = 16, i = 8, k = 2, m = 1
```

```
if ( (j^i) mod k EQUALS 0)
```

```
    m = m + 1
```

```
else
```

```
    m = m - 1
```

```
End if
```

```
Print m
```

**ANS: 2**

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

```
Integer a1, p
```

```
Set a1 = 8
```

```
p = a1 + 5/7 *4
```

```
print p * 8
```

**ANS: 64**

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

```
Integer x, y, z
```

```
Set x = 0, y = 1
```

```
For(each z from 0 to 2)
```

```
    x = x + y + z
```

end for

Print x

**ANS: 6**

5. What will be the output of given pseudocode for b = 18?

Integer Calculate(Integer b)

If(b EQUALS 1)

    return 0

else

    return 5 + Calculate(b / 2)

End function Calculate()

**ANS: 20**

6. Select the appropriate option for the given pseudocode.

Integer a[3][3], k ,j, sum

Set sum = 0

Set a[3][3]= { {1, 2, 3}, {4, 5, 6}, {7, 8, 9} }

for(each k from 0 to 2)

    for(each j from 0 to 2)

        sum = sum + a[k][j]

    end for

    jump out of the loop

end for

print sum

**ANS: It will print the sum of the elements of the first row of given 2-D array**

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

Integer a, k, j, i

Set a = 10, k = a/4, j = k/1

for (each i from 1 to j)

    print j+3, i+3

end for

**ANS: 5 4 5 5**

8. 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 << b

End for

Print b+c

**ANS: 1**

9. How will you initialize a multidimensional array on data structures?

**ANS: int a[][]**

10. What do you mean overflow condition in the stack?

**ANS: It is when the stack is completely filled and you try to push an element to the stack**

11. What will be the output of the following pseudocode for x=y=3?

Integer p(integer x, integer y)

    If (y EQUALS 0)

        return 1

    else if (y mod 2 EQUALS 0)

        return p(x,y/2) \* p(x,y/2)

    else

        return x\* p(x,y/2)\* p(x,y/2)

end if

End function p()

**ANS: 27**

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

```
Integer array1[6], p, j, q  
Set p = 3  
Set array1[6] = {3, 6, 10, 12, 23, 33}  
for(each j from 0 to 5)  
    if((array1[j] MOD p)EQUALS 0)  
        p = array1[j] - (p*3)  
    end if  
    q = p + array1[j] - 3  
end for  
Print q
```

**ANS: 54**

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

```
Integer a, b  
for(each a from 0 to 2)  
    for(each b from 0 to a)  
        print "laptop"  
    end for  
end for
```

**ANS: It will print "laptop" 6 times**

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

```
Integer a, p
```

Set a= 5

a = a + 1

a = a \* 2

a = a / 2

p = a / 5 + 6

print p

**ANS: 7**

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

Integer x, y, z

Set x = 0, y = 1

for(each z from 0 to 2 )

    x = x + y + z

end for

Print x

**ANS: 6**

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

Integer i, k

Set k=0

for ( each i from 3&4 to 3^4 )

    k=k+1

End for

Print k

**ANS: 8**

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

Integer p, q, r, s, t

```
Set q = 12, r = 3
while(q > (r - 1))
    r = r * 2
    s = r + q
    t = ( s MOD 4 ) + r
end while
if(s > t)
    Print t
else
    Print s
end if
```

**ANS: 24**

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

```
Integer a, b
Set a = 1, b = 1
a = ( a ^ 1 ) & (1) + ( b ^ 1 ) & (1)
Print a + b
```

**ANS: 1**

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

```
Integer first, second
```

```
Set first = 12, second = 20
```

```
first = first + second
```

```
second = first - second
```

```
first = first - second
```

```
second = second * 2
```

```
print first, second
```

**ANS: It will swap the values of first and second and double the second value**

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

```
Integer a, b, c  
Set b = 300, a = 5, c = 1  
If(b>a)  
    b=a  
else  
    a=b  
End if  
for( each b from 0 to 5)  
    a = a + 1  
End for  
Print a + c
```

**ANS: 12**

21. Which of the following is the correct condition to check if the queue is empty, where the front, rear and size have their usual meanings?

**ANS: front==rear**

22. Consider an array A={1,2,3} and an array b={-1,-2,-3}. An array c has been made by taking the sum of corresponding ..... elements). Calculate the sum of the first and third element present in array C.

**ANS: 0**

23. What will be the output of the following pseudocode k=50?

```
fun(integer k)  
    if(k > 55)  
        return  
    end if
```

```
    print k  
    fun(k+4)  
    print k  
End function fun()
```

**ANS: 50 54 54 50**

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

```
Integer i, j  
Set i = 0, j = 9  
do  
    i = i + 1;  
    if ( ( j = j - 1) < (i=i+1) )  
        JUMP OUT OF LOOP  
    end if  
    while (i < 5);  
    print i, j
```

**ANS: 6,6**

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

```
Integer a, b, c  
Set b = 300, a = 5, c = 1  
If(b > a)  
    b=a  
else  
    a=b  
End if  
for(each b from 0 to 5)  
    a=a+1  
End for  
Print a+c
```

**ANS: 12**

26. Suppose there is a 1-D array Arr[24] with the lower bound as 1 and starting base address as 1030. Find the address of Arr[21] if the size of each element is 4.

Answer: 1110

27. Suppose there is a Column major order  $3 * 4$  integer array with base address as 1000. Find out the address of element A[3,2]. Consider the size of each element as 2.

Answer: 1018

28. Consider an array A=(11, 2, 34) and an array B=(0, 4, 3). An array C has been made by joining array A and B, in order (C has six elements). Calculate the sum of the first and last element present in array C.

Answer: 8

29. Suppose there is a 1-D array Arr[10] with the lower bound as 1 and starting base address as 1020. Find the address of Arr[5] if the size of each element is 2.

Answer: 1028

30. Depth-first search (DFS) traversal can be used for which of the following applications?

Answer: All 1, 2 and 3

31. If you are using merge sort, then which of the following statements are correct that need to be considered?

Answer: Only 2 and 3

32. Which of the following is NOT a type of linked list?

Answer: None of the mentioned options.

33. Find out the sum of the degree of vertices in the pseudograph as shown in the image.

Answer: 12

34. John has written a program that traverses a given array linearly and outputs the sum of all the elements of an array which are divisible by 3. If an array  $X = \{1, 2, 4, 3, 6, 7, 3, 5, 4, 7, 8, 9\}$  is fed into John's program, what will be the output?

Answer: 21

35. Breadth First Traversal can be used for which of the following applications?

Answer: Only 1 and 2

36. Consider a linked list "X", with the following properties:

- i. Last node's link field points to the first node of the list.
- ii. It allows access to the middle nodes, without starting at the beginning.

Identify the type of X.

Answer: Circularly linked list.

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

1. Integer a[5], k
2. Set a[5] = {1, 2, 3, 4, 5}
3. for(each k from 0 to 4)
  4. if(k mod 2 equals 0)
    5. printf a[k]\*2
  6. else
    7. printf a[k]
  8. end if
9. end for

Answer: 2 2 6 4 10

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

1. Integer x
2. Set x = 15
3. while(x EQUALS 15)
  4. printf "student"
  5. Jump out of the loop
6. end while

Answer: It will print 'student' only one time

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

1. Integer a, b
2. Set a = 10, b = 10
3. a = a & b
4. b = b & 10
5. a = a & b
6. b = b & 10
7. Print a + b

Answer: 20

40. What will be the output of the following pseudocode for k = 50?

1. fun( integer k )
2. if(k > 55)
3. return
4. end if
5. print k
6. fun(k+4)
7. print k
8. End function fun()

Answer: 50 54 54 50

1. What will be the output of the following pseudo code?

```
Character arr[]  
Integer size  
Set arr []={'A','B', 'c', 'd', 'E', 'f'}  
Size=sizeof( arr)/sizeof(arr[0])  
Print size
```

**Ans:6**

2. Calculate the number of labelled binary tree possible when the number of nodes is 4.

**Ans:14**

3. Consider a binary tree, T with 6 nodes: A,B,C,D,E and F

1. A is the root node
2. B is the right child of A
3. C is the left child of B.
4. D is the left child of A
5. E and F are respectively left and right child of D.

Identify the correct statement

**Ans: T is a complete binary tree**

4. Consider a binary tree, T with 63 nodes. calculate the difference between the max and min possible height of the binary tree.

**Ans: 57**

5. George is writing a program in which he wants to use the features of two way child and circular list. Which of the following data is recommended him?

**Ans: Two way circular list.**

6. What will be the output of the following pseudo code for x=y=3?

```
If(y EQUALS 0)  
    Return 1  
else if( y mod 2 EQUALS 0)  
    Return p(x, y/2)*p(x, y/2)  
Else  
    Return x*p(x, y/2)*p(y, y/2)  
End if  
End function p()
```

**Ans:27**

7. what will be the worst case time complexity of insertion of a heap data structure that takes the form of a binary tree?

**Ans: O( log n)**

8. Matrix A when multiplied with matrix C gives the Identity matrix I, what is C?

**Ans: Inverse of A**

9. Integer Fibonacci(Integer n)

```
If(n EQUALS 0)
    Return 0
Else if(n EQUALS 1)
    Return 1
Else
    Return (Fibonacci(n-1)+Fibonacci(.....))
End function Fibonacci()
```

**Ans:n-2**

10. Mark the option which best expresses the given sentence

Teacher said to the student, "I know you know you"

**Ans: Teacher told the student that he knew him outside out.**

11. Which of the following expression is written in polish notation?

**Ans:\*CD**

12. Consider a linked list of 5 nodes. The address of the first node is 100. What will the address of the third node?

**Ans: Cannot be determined**

13. Set i=0,j=9

Do

I=i+1;

If(j==j-1)<( i =i+1))

JUMP OUR OF THE LOOP

End if

While(I <5);

Print I, j

**Ans:6,6**

14. George is writing a program in which he wants to use the features of two way list and circular header list. Which of the following data structure would you recommend him?

**And: Two way circular list.**

15. What will be the worst case time complexity of the insertion of the heap data structure that takes form of the binary tree?

**Ans: O(log n)**

16. Integer a, b, c

Set b=1,a=5,c=1;

If(b<a)

b<a

Enf if

For(each b from 0 to (1^2^3))

b=b+1

end for

print b

**Ans:2**

17. Calculate the number of labelled binary trees possible when the number of nodes is 4?

**Ans:14**

18. Consider the following sorting techniques

- 1.Bubble sort
- 2.Insertion sort
- 3.Merge sort
- 4.Quick sort
- 5.Selection Sort

Identify, which of the above sorting techniques are based on divide and conquer approach?

**Ans: Only 3 and 4**

```
19.Integer i;  
Set i=100  
If( I mod (1^2) EQUALS 1)  
    I=i+9  
Else  
    I=i-11  
End if  
Print i
```

**Ans:109**

1. A polynomial  $f(x)$  is represented by the following array:

{2,3,6,3,1} What is the sum of coefficients of  $X^3$  and  $X^1$ ?

- a). 7 b). 6 c).6 d)9

2). Consider an undirected graph, G with four vertices. The adjacency matrix of the graph is shown below:

1011

0011

1110

1100

- a) 0 b) 2 c) 3 d) 1

3). Why open addressing provides better cache performance than chaining?

1. In open addressing, everything is stored in the same table.
2. In chaining keys, are stored using a linked list

Choose the Correct answer from the option given below:

- a). Both 1 and 2 are false
- b). Only 2 is true
- c). **Only 1 is true**
- d). Both 1 and 2 are true

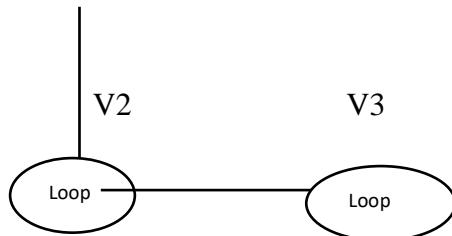
4). If there is a data structure in which the relationship of adjacency is not maintained between data items, then which of the following operation is not applied to the data structures?

- a). Traverse
- b). Display
- c). Sort
- d). Search

5). Consider an array of containing elements of data type X. It is given that the difference between the address of the 11<sup>th</sup>& 14<sup>th</sup> Elements 13 bytes. Identify X

- a) . Character Type
- b). **Float type**
- c). Integer Type
- d). Double float

6). VI



- a)12 b)16 c)4 **d)8**

7). Moneta is writing a program to perform insert operation in a binary search tree using recursion. Which of the following types of recursion will she be used in her program?

- a) Both A & B
- b). None of the mentioned option
- c). Head recursion
- d). Tail recursion**

8). what will be output of the following pseudo code?

Integer p,q

Set q=5

For (each p from 7 to 10)

If(q<7)

P=p+6

P=p+q=4

end for

Print q

- a) **16** b) 15 c) 14 d) 13

9). What will be the output of the following Pseudo code?

Integer i

Set i=45

If(i mod 2 equals 0 OR i mod 2 AND i)

Print i mod 2

Else print i

End if

- a) 2 b) 45 c) **1** d)0

10.)What will be the output of the following Pseudocode?

Character p[20], b[20]

Set p[20] = "Respect your elders"

Integer K

Set K=0

While (P[K] not equal null character AND p[k] not equals space)

B[k]= p[k]

K=k+1

End while

Set k=0

While (b[k] not equal null character)

Print b[k]

K=k+1

End while

- a). Respect elders b). R c). Elders **d)Respect**

11). What will be the output of the given code?

Integer k,m

Set K=1, m=9

If(K+8/m)

Print m

M=m+1

If (k\*8/m)

Print k

K=k-1

For (each k from m to 8) decrease k by 1 in each iteration

Print k

End for

- a). 9 10 9 9 b). 9 10 8 9 c) **9 10 9 8** d). 9 10 9 10

12). Consider an array ={2,5,9,12,3,4,3,19}. While sorting the array A suing count sort, what will be the size of the dynamically created array, in which the number of occurance of each element are present?

- a) 19 b) 20 c) None of the mentioned options **d). 5**

13). Heap is more efficient for implementing priority queues than a linked list or an array as it supports the following operation in O(log n)

- 1). Insert() 2.) extractmax() 3. decreaseKey()  
a). **Only 1 & 3** b). Only 1 and 2 c). Only 2 & 3 d). All 1 , 2 & 3

14). What will be the output of the following pseudocode for X=?

Integer fun(Integer X)

If (x EQUALS 1)

Return 7

Else

Return fun(x/7\*6)

End if

End function

- a).4 b) 2 c) 7 d) 3

15). What will be the output of the following pseudo code for per=75 and marks =25

Integer per, marks

If( marks > 30 OR per >=60 AND per <50)

Print grade “A”

Else if(marks <30 OR per>=30 AND per<50)

Print “ grade B”

Else “grade C”;

End if

- A). Grade C b). **Grade B** c) Non of the mentioned below d). Grade A

16). If the speed of packets sent by a server is faster than the speed of receiver, then which of the following would be the most suitable for Synchronization?

- A). B-tree b) **Ques** c) Uuad tree d) Binary tree

17). What will be output of given Pseudo code.

Integer S

Set s=78

While (s Equals 78)

If(s<89)

S=s+1

Continue with next iteration

Print “Welcome”

Else

Jump out of the loop

End if

End while

- a). None of the mentioned above b). It will print “welcome” only one time

- c). **It will print nothing** d). It will print welcome 78 times

18). What will be the output of the following pseudocode for a =3?

Integer fun(Integer a)

Integer arr[]=(10, 7,2,6,1,2,3}

Integer P, Sum =0

For (each p from ) to a -1)

Sum= sum+arr[a]

End for

Return sum

End function fun()

- a) 20 b) 18 c) **19**

19). The minimum number of multiplication and additions required to evaluate the polynomial  $p= 4x^3+3x^2-15x+45$  is

- a). 4&2 b) 3 & 4 c) **3&3** d). 6& 3

20).what will be the probability of selection a random node from given singly Linked list?

- a) .  $2(N-1)/N$  b).  $N/2(N-1)$  c). **1/N** d).  $2N-1$

21). Consider the complete Undirected graph with vertex set {0,1,2,,3,4}. Entry  $W_{ij}$  in the matrix W below is the weight of the edge {i,j}. What is the minimum possible weight of a spanning tree T in this graph such that vertex 0is a leaf node in the tree T?

W= 01 814

101249

812073

49320

- A). 8 b). 7 c).9 d).10

22). Suppose Queue is implemented using a linked list and its front node & rear nodes are tracked by two reference variable. Which of these reference variables will change during an insertion into a NONEMPTY queue?

- a). Both will change b). **Only the rear will change** c). Only the front will change d). None of them will change

23). How much time will be required to generate all the connected components in an united graph G with ‘n’ vertices and ‘e’ edges when the graph is represented by an adjacecy list?

- a.  $O(e)$  b).  **$O(e+n)$**  c).  $O(n)$  d).  $O(e^2)$

24). Let A,B,C,D, E be sorted sequences having length 20,24,30,35,50 respectively, they are to be merged into a single sequence by merging together two sequences at a time. How many comparisons are needed in the worst case by the optimal algorithms?

- a) 423 b). **358** c). 544 d). 256

25). If a Node having two children is deleted from a binary tree, it is replaced by its

- a) **Inorder Successor** b). Inorder Predecessor c). Preorder predecessor d). None of the mentioned types

26). Which of the following graph analysis algorithms would be applied for finding shortest paths in a weighted graph and can also be used for finding transitive closure of relation R?

- a). Meshy algorithms b). Prims algorithms c). **Floyd's algorithms** d). Dijkstra 's algorithms

27). Integer n

If( $g>f$ )

For( $n=f$ ; $n<g$ ; $n=n+1$ )

Sum=Sum+2

End for loop

Else

Print error message

Print sum

- a) **21** b) 15 c) 9 d) 6

28). Consider the Hash table with 9 slots. The hash function is  $h(k)=k \bmod 9$ . The collisions are resolved by chaining. The following 9 keys are inserted in the order : 5,28,19,15,20,33,12,17,10. The maximum, minimum and average cahin length in the hash table, respectively are

- a). **3,0 and 1** b). 3,3, and 3 c).4,0 and 1 d). 3,0 and 2

29). You have ab array of n elements. Suppose you implement a quick sort by walays choosing the central elements of the array as the pivot. Then the tightest upper bound for the worst case performance is :

- a).  **$O(n^2)$**  b)  $O(n\log n)$  c)  $O(n\log n)$  d).  $O(n^3)$

**30). Let G be a graph with n vertices and m edges. What is the tightest upper bound on the running time on depth First search of G ? Assume that th graph is represented using adjacency matrix.**

- a). O(n) b) O(m+n) c). **O(n<sup>2</sup>)** d) O(mn)

**31). Match the following for B-tree of order m.**

A. Maximum number of non empty children for each non-leaf node b). Minimum number of non empty children for each non root c). Maximum number of keys in each non- root

1. m 2.m/2 3.m-1

- a). A-3, B-2, C-1 **b). A-1, B-2, c-3** c). A-2, b-1, c-3 d). A-2, b-3, c-1

**32). Consider a stack of letters. He stack is allocated 4 memory cells.**

STACK: A,B,C

The following operations are performed on the stack:

- i)POP (STACK, ITEM)
- ii)POP(STACK, ITEM)
- iii)POP(STACK, ITEM)
- v)PUSH (STACK, M)
- i) POP(STCAK, ITEM)

What will be printed after the above operation are performed?

- a). ACBM b). BCAM c). MBCA **d). None of the mentioned options**

**33). What will be output of the following pseudo code?**

Integer a,b,c

Set b=2, a=2

C=a^b

Print C

- a). 2 b) 4 **c). 0** d).6

**34). What will be output of the following pseudo code ?**

Integer arr[]={10,20,30,40,5}

Integer a, s

Set s=0

Set a=arr[1]+arr[2]

Print a

- a) **50** b) 40 c)25 d) 5

**35). What will be output of the following pseudo code ?**

Integer arr[5],a,b,c

Set arr[5]={ 11,13,4,50,77}

If(arr[0]>arr[1])

B=arr[0]

C=arr[1]

Else

B=arr[1]

C=arr[0]

Endif

For (each a from 2 to 9)

If( $b < arr[a]$ )

$C = b$

$B = arr[a]$

Else if ( $C < arr[a]$ )

$C = arr[a]$

End if

End for

Print c

Which of the following option is correct?

a). The output of the given pseudo code is largest element of given array

**b). The output of given pseudo code us second largest element og given array**

c). The output of given pseudo code is smallest element of given array

d). The output of given pseudo code is second smallest element of given array

36). What will be the output of the following pseudo code?

Integer a,b,c

Set  $b=3$ ,  $a=5$ ,  $c=1$

If( $b < a$ )

$B = a$

End if

For each(each b from 0 to  $(1^{^2}{}^3)$ )

$b = b + 1$

end for

Print b

a) 6 **b) 5** c) 2 d) 1

37). What will be the output of the following pseudo code?

Integer a, b

Set  $a=15$ ,  $b=7$

$a = a \bmod (a - 3)$

$b = b \bmod (b - 3)$

$a = a \bmod 1$

$b = b \bmod 1$

print  $a+b$

a) **0** b) 7 c) 15 d) 2

38). With the following details given about a binay tree, find out the maximum number of nodes in the given tree.

Height of a binary tree = 5

Nodes at level 1=4

a). 65 b) 59 s).**63** d).62

39.) Integer a,b,c

Set b=2, a=1

For (each c from 1 to 2)

a=a\*c

b=b\*c

End for

If((1&4)|(1^1)|(2^3))

b=a-1

a=a-1

else

a=a^1

b=b^1

end if

print a+b+c

a) 2 b) **5** c) 3 d) 6

40). What will be output of the following pseudo code?

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

**a)13** c)2 c)5 d)26

41). What will be the output of the following pseudo code for a=2?

Integer fun(Integer a )

If(a>0)

Return a+fun(a-1)

Else

Return 0

End if

a) 6 b) 5 c) **3** d)4

42). What will be the output of the following pseudo code for a=22?

Integer compact(Integer a)

If(a<=45)

Compact(compact(compact(a\*5+1)))

End if

Return a\*2

End function compact()

a). 22 b) 45 c) 56 d) 44

43). Consider an array A={1,2,4,6,8,10,12} and a key which is equal to 10. How many comparison would be done to find the key element in the array using the binary search:

a).1 b b)5 c)**2** d)3

44). Which data structure is used while transforming infix expression to post fix expression ?

a) Stack b) Graph c) Tree d) Queue

45). What will be output of the following code?

Integer a,b,c

Set b=5, a=2, c=2

If(a)

A=a-1

A=c

Else

C=c+1

End if

If(a-1)

C=c+1

Else

C=c-1

End if

Print a+b+c

a) 15 b)20 c) **10** d)11

46).What will be the output of the following pseudo code for a=50?

Integer fun(Integer a)

Integer b,c

Set c=10

For (each b from 0 to a-1)

C=c-1

End for

Return C

End function fun()

a) -30 b) -20 c)-10 **d)-40**

47). What would be the output of the following pseudo code?

Integer i,j,k

Set i=12

J=i/5+i/7

For(each p from 0 to 2)

If(j>1 && j<4)

K=j+1

End if

Jum out of the loop

Print i+1

End for

Print k

a)7 **b) 4** c) 2 d)5

48). What would be the output of the given pseudo code?

Integer i,j,k

Set k=8

For (each i from 1 to 1)

For (each j from the value of i to 1)

Print k+1

End for

a) 2 b) 9 c) 7 d) 8

49). What will be the output of the following pseudo code ?

Integer a, b,c

Set b=40, a=20, c=20

If(c>(c+a))

B=0

Else

A=a+2

c=a+2

end if

if(c>(b+a))

b=0

else

a=a+2

c=c+2

end if

print a+b+c

a). 60 b) 30 c) 39 d)**90**

50). In which of the following applications, both BFS & DFS traversal can be used?

1. To test if a graph is Bipartite

2. Finding all nodes within one connected component

3. GPS navigation system

a) only 2 & 3 b) all 1,2,3 c). Only 1 & 3 d). **Only 1 and 2**

51). Which of the following is the correct reason that should be considered while selection the correct technique of traversal for Ford Fulkerson algorithm.

1. BFS is preferred as it reduces worst case time complexity

2. DFS is preferred as it reduce worst case time complexity

a). Both 1 & 2 b). **Only 1** c). Only 2 d). Neither 1 nor 2

52). Consider a linked list with 5 nodes. The address of the first node is 100. What will be the address of the 3<sup>rd</sup> node?

a). 102 b). 106 c). 104 d). **Cant be determined**

52). 1. Bubble sort

2. Insertion sort

3. Merge sort

4). Quick sort

5). Selection sort

Identify, which of the above sorting techniques are based on divide and conquer approach?

a) Only 2 ,3,4 & 5

b) Only 1,2, &5

c) **C. Only 3 & 4**

d) Only 1,3,4

53). George is writing a program in which he wants to use the features of two way lsit and circular header list.

Which of the following data structure would be recommend him?

a). One way list b). **Two way circular list** c). Header list d). Array

54). Consider an array A={1,2,3} and and Array B={-1,,,-2,-3}. An array C has been made by taking the sum of corresponding elements of A & B. (C also has 3 elements). Calculate the sum of the first and 3<sup>rd</sup> element present in array C.

**a) 0b).-6 c) 6 d). 3**

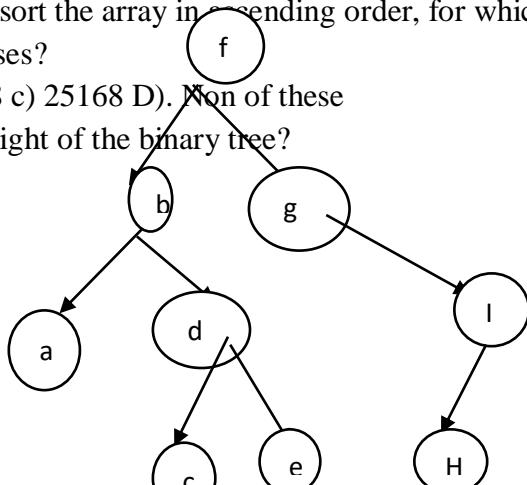
55). Consider an array A with 5 elements:

A={2,8,5,6,1}

Person X wants to sort the array in ascending order, for which he is using bubble sort. How will the array look like after three passes?

- a). **21568** b) 12568 c) 25168 D). None of these

56). What is the height of the binary tree?



- a) 1 b) **3** c) 4 d).2

57). Consider a binary tree, T with 6 nodes A, B,C,D, E & F

1. A is the root node
2. B is the right child of B.
3. C is the left child of B
4. D is the left child of A
5. E & F are respectively left and right child of D.

Identify the correct statement

- a). T is a full binary tree b). None of the mentioned option  
c). T is a strict binary tree d). **T is a complete binary tree**

58). Consider the following arithmetic expression written in infix notation:

A+(B\*C)

Find the postfix expression of the above expression.

- a) ABC+\* b). \*+ABC c). **ABC\*+** d). None of the mentioned option

59). Calculate the number of labelled binary tree possible when the number of nodes is 4.

- a) 336 b) 14 c) None of the mentioned option d). **48**

60). Select the appropriate option for the given pseudo code.

Integer a[3][3], k,j, sum

Set sum=0

Set a[3][3]={ {1,2,3},{4,5,6},{7,8,9} }

For (each k from 0 to 2)

For (each j from 0 to 2)

Sum=sum+a[k][j]

End for

Jump out of the loop

End for

Print sum **Ans: 6**

61). What will be the worst case complexity of insertion of a heap data structure that takes the form of a binary tree?

- a) o(n) b) **O(log n)** c). O(n log n) d). O(1).

62). What will be the output of the following pseudo code?

Integer a,b,c

Set b=5, c=2, a=2

If(b>a||a>c||c>b)

B=a  
Else  
A=b  
End if

Print a+b+c **Ans:6**

63). What will be the output of the following pseudo code?

Integer x  
Aet x=15  
Wile (x equals 15)  
Print "Student"  
Jump out of the loop  
End while

- a). It will print student as 16 times
- b). It will print student 15 times
- c). It will print student unlimited number of times

**d). It will print student only one time**

64). What will be the output of the given pseudo code for b=18?

Integer calculate(Integer b)  
If(b equals 1)  
Return 0  
Else

Return 5+calculate (b/2)

End function (calculate)

**a)20 b) 34 c) 21 d) 36**

65). What will be the output of the following pseudo code?

Integer a,b,c  
Set b=300, a=5, c=1  
If(b>a)  
B=a  
Else

A=b

End if

For(each b from 0 to 5)

A=a+1

End for

Print a+c **ans:12**

66). Integer fibonacci(Integer n)

If ( a equals 0)

Retrun 0

Else if ( n equals 1)

Return 1

Esle

Return(Fibonacci(n-1)+ Fibonacci(... blank space.....));

End function Fibonacci()

**ans:(n-2)**

67). Integer x,y,z

Set x=0, y=1

For(each z from 0 to 2)

X=x+y+z

End for

Print x

**ans:6**

68). What will be the output of the following pseudocode?

Integer a,p

Set a=5

A=a+1

A=a\*2

A=a/2

P=a/5+5

Print p

a)0 b)1 c)7 d) 3 e)**6**

69). What will be the output of the following pseudo code?

Integer i,j

Set i=0, j=0

Do

I=i+1;

If((J=j-1)<(i=i+1))

JUMP OUT OF THE LOOP

End if

Print i,j **ans:i=2,j=-1;**

70). Integer i,j,k,m

Set j=15, l=8, k=2, m=1

If(j^i)mod k EQUALS 0)

M=m+1

Else

N=m-1

End if

Print m

**Ans: 0**

71). Integer fun(Integer a)

Integer b

Set b=10

Return a-b

End function fun()

72. What will be the output of the following pseudo code?

Integer i

Set i=45

If(i mod 2 equals 0 or i mod 2 and i)

Print i and mod 2

Else

Print i

end if

[Note: mod finds the remainder after the division of one number by another.

2 leaves a quotient of 2 and a remainder of 1

II : Logical OR – The logical OR operator (II) returns the Boolean value true (or 0).

The logical operator AND (&&) returns the Boolean value true(or 1) if both operator are true and return false(or 0) otherwise]

- a)1**      b)0      c)2      d)45

73. What will be the output of the following pseudo code?

Integer x1, x2, x3,z

Set x1= 17, x2=10, x3=9

Z=x1+x3\*x2/x1+x2\*x1/x3 mod x3/x2

If(z+1<=0)

Print z\*x2/5

Else

Print z +1

End if

- a)23**   b)1      c)3      d)45

74. What will be the output of the following pseudo code?

Integer a,b,c

Set a=5, b = 1

If(10>b)

A = b -10

Else

For(each c from 0 to 3)

A=a-c

End for

End if

Print a+b

- a)2      **b)-8**      c)-4      d)3

75. What will be the output of the following pseudo code for a =10, b =11?

Integer funn(integer a, integer b)

If (b>2 && a>1)

Return a+b+funn(5, 1)

End if

Return 1

End function funn()

a)11    b)0    c)12    **d)22**

76. What will be the output of the following pseudo code?

Integer arr[] = { 10,20,30,40,5 }

Integer a

Set a = arr[1]-arr[2]\*arr[4]

If(a<0)

Arr[3] =0

End if

Print (a+arr[3])

a)10    b)-100 **c)-130** d)0

77. What will be the output of the following pseudo code?

Integer a,b,c

Set a=1, b=10, c=1

If(0 || 1)

A=a+c

If (0 || 1)

A=a+c

If(0 && 1)

A=a+c

If(0 && 1)

A=a+c

End if

End if

Print a+b+c

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

- a)12    b)14    **c)13**    d)11

78. What will be the output of the following pseudo code?

Integer a,b

Set a=10

Set b=5

If(b>a && 0)

A=a-b

B=b>>1

Else

A=a+b

B=b<<2

End if

Print b+a

- a)8              **b)35**    c)7        d)10

79. What will be the output of the following pseudo code?

Integer a,b,c,d

Set a=3,b=3

For (each c from 11 to 13)

For (each d from 0 to 1)

A=a-5

End for

For (each d from 0 to 2)

A=a+1

End for

- a)2              b)-3    c)1        d)-2

80. if each element of an expression  $6+((14+7)*3)$  is stored as anode in a tree, which term would be leaf mode and which one node?

a)null and operators respectively

b)operands and operator respectively

c)operators and operator respectively

d)null and operators respectively

81. Given an input array , arr = { 1,2,3,4,5}; key = 5. What is the level of recursion if binary search applied using recursion?

a)5      b)4      c)**3**      d)2

82. A 4 degree regular graph consists of 10 edges. Which of the following is the correct number of vectors?

a)6      b)5      c)7      d)10

83. What will be the output of the following pseudo code for a =7, b=5?

Integer funn(integer a, integer b)

If(b)

Return 1+funn(b-5, a-7)

End if

Return a+b

End function funn()

a)3      b)0      c)**1**      d)2

84. What will be the output of the following pseudo code?

Integer a,b,c

Set a=4, b=3, c=1

If(a+2)

If(c-1)

A=1

Else

A=3

End if

Else

A=2

End if

Print a+b-c

**a)5**      b)9      c)2      d)6

85. Given input arr={20,42,34,68,88,22,1308,246}, in radix sort sorting according to which digit we get containers having:

0: 020 022 034 042 068 088

1: 246

2:

3:

4:

5:

6: 1308

7:

8:

9:

a)None of the mentioned option

b)Ten's digit

**c)one's digit**

d)hundred's digit

86. What will be the output of the following pseudo code?

Integer a,b,c

Set a=12, b=13, c=14

If(a>>2 OR >>3 OR c>>4)

Print a,b,c

else

print a>>2,b>>3,c>>4

end if

a)11 12 13      b)10 10 10      c)12 12 12      **d)12 13 14**

87. What will be the output of the following pseudo code?

Integer n

Set n=2

Switch (n+3)

Case 1:

Print "a"

Case 2:

Print “b”

Case 3:

Print “c”

Default:

Print “d”

End switch

- a)A
- b)B
- c)C
- d)D**

88. What will be the output of the following pseudo code?

Integer a,b

Set a=5

B=a^a^a^a

If((a-b))

A=a>>1

End if

A=a&b

Print a+b

- a)5
- b)4
- c)0**
- d)3

89. What will be printed on the console?

Void f() throw (float)

{

Throw 10.0f;

}

Int main()

{

Try{

Std::cout<<'A';

F();

Std::cout<<'B';

}

Catch(...) {

```
Std::cout<<'C';
```

```
}
```

```
Return 0;
```

```
}
```

Pick one option:

- a)A      **b)AC**    c)ABC d)ACB

90. What will be the value of p in the given pseudo code such that it would print “second” as the output?

Integer p

Switch(p)

Case 1: print “first”

Jump out of the loop

Case 7/2: print “second”

Jump out of the loop

Default: print”invalid”

End switch

- a)0      **b)3**    c)1    d)2

91. What will be the output of the following pseudo code?

Integer a,b,c

Set b=48, a=20, c=20

C=c-a+b

B=a-b+c

B= c mod 1

Print a+b

- a)4      **b)20**    c)9    d)25

92. What will be the output of the following pseudo code?

Integer a,b,c

Set b=40, a=20, c=20

If(c>(c+a))

B=1

Else

A=a-2

C=c-2

End if

If (c>(b+a)||1)

B=(0^5)

Else

A=a+2

C=a+2

End if

Print a+b+c

**a)41 b)22 c)6 d)10**

93. What will be the output of the following pseudo code?

Integer a,b,c

Set a=1, b= 599

A=a+2

For(each c from 1 to 3)

A=a&0

B=b+(a&0)

End for

B=b-299

Print a+b-c

**a)296 b)-70 c)100 d)8**

94. What will be the output of the following pseudo code?

Integer a,b,c,d

Set a=3,b=3

For (each c from 11 to 13)

For (each d from 111 to 112)

A=a-5

End for

If(a+c>1)

Continue

End if

A=a+1

End for

Print a-b

- a)28   b)-28   c)**-20**   d)27

95. On execution, the following structure declaration shows compilation error. This is due to the error in which of the following lines?

```
Struct german           //line 1  
{  
Int india;           //line 2  
Struct german *Italy; //line 3  
Struct german Italy; //line 4  
};
```

- a)Line 2      **b)Line 4**      c)Line 3      d)Line 1

96. Given an input arr={4,7,2,5,4,6,1,4,5,3,4,2}, reference array refArr ={0,1,2,1,4,2,1,1}

Identify the sorting algorithm.

- a)counting sort      b)radix sort    c)none of the mentioned      d)Heap sort

97. What will be the output of the following pseudo code?

Integer p,q,r,s,t

Set p=5, q=15, r=40

While(p+q<r)

S=s+p+q+r

T=s/3

P=p+5

Q=q+5

End while

Print t

- a)20   b)38   c)25   d)32

98. What is the expected output?

Foo=[1,2,3,'a', None,(),[],]

Print(len(foo))

Pick one option

**a)syntax error**      b)6      c)7      d)8

99. What will be the output of the following pseudo code?

Integer j, m

Set m=0

Integer a[3] = {1,3,2}

For (each j from 0to 2)

If (a[j]^a[0])

M=m+j

End if

End for

Print m

a)2      **b)3**      c)1      d)4

100. Consider an undirected graph, G with V= {a,b,c,d,e,f}. There are 6 pairs [xA'] of nodes such that node x is connected with node y; hence

E = {[a,13],[a,e],[1,,d],[e,c],[e,f],[b,f]}

Identify the correct statements about the graph, G.

**A. The graph is disconnected**

B. The graph is complete

C. The graph is not loop free

D. The graph can be a spanning tree of some graph

101. What will be the output of the following pseudo code?

Integer a,b,c

Set a=10, b=5, c=2

A=a+2

If(a+4>10)

B=0

Else

A=0

End if

B=b-2

Print a+b+c

- a)88    b)9    **c)12**    d)7

102. Given an input array, arr ={1,2,3,4,5} key= 5. What is the level of recursion if binary search applied using recursion?

- a)2              **b)5**    c)3    d)4

103. An undirected graph consists of z vertices and z-4 edges. Consider the following statement.

“The graph is disconnected.”

What comment can be made about the above statement?

- a)The statement is definitely false  
b)The statement may be true  
**c) The statement is definitely true**  
d)None of the mentioned options

104. Consider the following graph theoretic concepts:

1. circuit

**2. Trial**

3. Closed path

In which of the above graph theoretic concepts repeated vertex is allowed

105. What will be the output of the following pseudo code?

Input a=6, b=9

Integer n

Set res=1

If(a>10&&b<a)

Print error message

Else

For (n=a;n<b;n=n+1)

Res=res\*n

End for loop

Print res

Note: ‘&&’ operator returns true if and only if the expressions inside if() are true.

Example:

If( $6 > 5 \&\& 12 < 10$ )

Print true

Else

Print false

The output will be false as one expression ( $12 < 10$ ) in if () is not true.

A) 336 B) 124 C) 47 D) 256

106. What will be the output of the following pseudo code?

Integer a,b

For(each a from 1 to 2)

B=17

Print b+a-a\*a

End for

Print a+1

A) 17 4 15    B) 17 17 16    C) 1 2 3    D) 17 15 4

107. What will be the output of the following pseudo code?

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

A) 21 B) 15 C) 9 D) 6

108. What will be the output of the following pseudo code?

Integer k,p,j

Set k=1, p=4

Int j=p+k/2

If(j equals p)

Print "hello"

End if

J=p+k/5

If(j not equals p)

Print "hello"

End if

Print "hello"

A) Will not print hello at all   **B) Two times**   C) One time   D) Three times

109. Consider an array of integers, A={ 34, 670, 132, 46, 4}. The array is to be sorted using radix sort.

After how many

A) 2   **B) 3**   C) 4   D) 1

110. Calculate the number of vertices in a wheel graph consisting of 12 edges/

A) 6   B) 8   C) 9   **D) 7**

111. An undirected, simple graph consists of 4 vertices and some number of edges, say e, consider the following statement: "( 1,1, 1,2) can be the degree sequence of the graph"

What comment can be made about the above statement?

A) **The statement is definitely false**   B) None of the mentioned options   C) The statement is definitely true   D) The statement may be false.

112. What will be the output of the following pseudo code?

Integer j, m

Set m = 1

Integer a[4]={1, 1, 2, 2}

A[1]=a[0]+a[1]

A[3]=a[0]+a[3]

For (each j from 0 to 3)

A[j]= m+a[j]

End for

M= a[3]

Print m

**A) 4    B) 2    C) 3    D) 1S**

113. What will be the output of the following pseudo code?

Integer s

Set s=17

While ( s not equals ( s+ 1)/2)

Print “computer”

S=s-1

If(s equals 2)

Print “science”

End if

Jump out of the loop

Print “maths”

End while

If(s>=4)

Print s

End if

**A) Maths    B) computer    C) Science    D) 17**

114. Identify the examples of reverse polish notation from the following

A) PQ+

2. PQ-

3. /PQ

**A) Only 1 and 2`    B) Only 1    C) Only 3    D) Only 2**

115. What will be the output of given pseudo code for a=2?

Integer sum(integer a)

If( a equals 1)

Return 1

Else

Return ( a\*a+sum(a-1))

End function sum()

**A) 2    B) 1    C) 6    D) 5**

116. What will be the output of the following pseudo code?

Integer number

Set number=1

Do

Print number

Number=number + 1

Print number +1

While(number<=0)

End do while

Print number

- A) 2 1 1      B) 1 0 3      C) 1 1 2      D) **1 2 2**

117).What will be the output of following code?

Integer i,j,k

For(i=1;j<5;j++)

    For(j=i;j<5;j++)

        Print blank space

    end for

    for (k=1;k<(i\*2);k++)

        print star(\*)

    end for

line break

end for

ANS:

\*

\*\*\*

\*\*\*\*\*

\*\*\*\*\*

118).What will be the output of following pseudocode?

1. Integer j, i, count, num

set j= 31, count = 0, num = 64

```
while(num NOT EQUALS 0)
    if ((num & 1) is EQUAL to 1)
        0Jump out of the loop
    else
        Count = count + 1
        num = num >> 1
    end while
Print count
```

**ANSWER: 6**

119) . What will be the output of the following pseudocode?

1. Integer a = 1, b = 2
2. for (int i = 0; i <= 6; i= i+2)
3. a=a+b+i
4. a=a+b
5. b= a - b
6. Print b

7 end for

**ANSWER: 3 10 29 76**

120). What will be the output of the following pseudocode?

1. Integer x, y, z
2. Set x = 10, y = 12, z = 12
- 3.z = (x + y)/4 //Line 3
4. if(z IS EQUAL TO 12)
5. Print successful
6. else
7. Print unsuccessful

**Answer: UNSUCCESSFUL**

121).for which of the following inputs,the following pseudocode will execute both the print statement?

- 1.Integer a,b,c
- 2.if(a>b OR a>c)

3.Print a

4.If( $a+b > c$  AND  $b < c$ )

5.Print b

**ANSWER: a>c>b**

122). What will be the output of the following pseudocode?

1. Integer i, f, num

2. Set f = 1, num = 8

3. Repeat for i=1 to num

4.        $f = f * i$

5. End loop

6. Print f

**ANSWER: 40320**

123). for which of the following inputs, the following pseudocode will print Q ?

1. Integer a, b, c

2. if ( $a + c > b$ )

3.       if( $b < c$ )

4.

Print P

5.       else

6.       Print Q

7. else

8. Print R

**ANSWER: a>b>c**

124). What will be the output of the following pseudocode?

1. A. Integer num, x, Y, Count

2 Set nus=05, count= 0

3.x = num << 1

4. y=x\*num

5.y= y+1

```
6.while ( (y/2) NOT EQUALS 0 )  
7.      if (y MOD 2 NOT EQUALS 0) \  
8.          Count= count + 1  
9.      else  
10.         y =y/2  
11.     end if  
12. end while  
13. if (count)  
14.     Print "0 "  
15.     Print y  
16. else  
17.     Print "1"  
18.     Peint x
```

### **ANSWER: 0 51**

125).What will be the output of the following pseudocode?

1. Integer a, b
2. Set a = 10, b = 7
3. for(int i = 1; i <= 5; i++)
4. a = a +i +b
5. while ( a > 6)
6. a = a+ b
7. b = b-1
8. a = a-1
9. end while
10. Print a

11. End for

ANSWER: 3 -3 -8 -12 -15

126).What will be the output of the following pseudocode?

1. Integer i, j, sum, n
2. Set sum = 0, n = 7

3. Repeat for  $i = 1$  to  $n$
4.     Repeat for  $j = 1$  to  $i - 1$
5.          $sum = sum + j$
6.     End loop
7. End loop
8. Print sum

**ANSWER: 56**

127).What will be the output of the following pseudocode for  $x=3$  and  $y=4$ ?

- 1.Integer fun(int x, int y)
2.     if( $x > 0$ )
3.         fun( $x-1, y+1$ )
4.     end if
5.     print y
6. end function fun()

**ANSWER: 6 5 4**

128).What will be the output of the following pseudocode?

- Integer a,b,c
- 2.set  $a=10, b=20$
  - 3.for ( $c=a; c \leq b; c=c+2$ )
  4.      $a=a+c$
  5.      $b=b-a+c$
  6.     if (  $a > 10$  )
  7.         print a
  8.     else
  9.         print b
  10.    end if
  - 11.end for

**ANSWER: 12,26**

129)..What will be the output of the following pseudocode for  $i=140$ ?

- 1.Integer fun(Integer i)

```
2.    if((i MOD 2) NOT EQUALS 0)
3.        Return i
4.else
5.    Return fun(fun(i=1))
6.End function fun()
```

**Answer : 139 or 141**

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

```
1.Integer fun (Integer a[],integer n)
2.    Integer x
3.    if(n IS EQUAL TO 1)
4.        return a[0]
5.    else
6.        x=fun (a,n-1)\n
7.        if(x<a[n-1])
8.            return x
9.        else
10.           return a[n-1]
```

11.End function fun()

**ANSWER: 24**

131). What will be the output of the following pseudocode if n=40 and LIMIT=1000?

```
1.integer fun2(integer n)
2.    if(n<=0)
3.        return 1
4.    end if
5.    if(n>LIMIT)
6.        return 2
7.    end if
8.    print n
9.    fun2(2*n)
```

10. print n  
11. End function fun()

**ANS: 40801603206406403201608040**

132).What will be the output of the following pseudocode?

1.Integer a,b  
2.Set a=2,b=50  
3.while(b>0)  
4. a=b MOD 2+a  
5. if(a MOD 3 IS EQUAL TO 0)  
6. print(a)  
7. else  
8. print(b-1)  
9. b=b/5  
10. a=a+1  
11. end while

**ANS: 4931**

133).What will be the output of the following pseudocode?

1.Integer a,b,c  
2.set a=6,b=84  
3.while(b>0)  
4. b=b/2  
5. a=a+6  
6. c=a+b  
7. while(c>40)  
8. if(c mod 2 IS EQUAL TO 0)  
9. Print a  
10. else  
11. Print b  
12. c=c/10  
13. end while

14.end while

15.Print c

**ANS: 121484**

134).What will be the output of the following pseudocode?

1.Integer a,b,v,c

2.Set a=5,b=6,v=90

3.while(v>8)

4.       a=a+v

5.       c=(a+b)mod 10

6.       while(c>9)

7.       b=b-a

8.       c=c-1

9.       end while

10.      v=v/2

12. end while

13.Print b,c

**ANS: 69**

135).What will be the output of the following pseudocode?

1.Integer x

2.Set x=0

3.if(x IS EQUAL TO 1 )

4.       if(IS EQUAL TO 0)

5.           print “Inside if”

6.       else

7.           print “Inside else if”

8.       end if

9.else

10.      print”Inside else”

11. end if

**ANS: Inside else**

136).What will be the output of the following pseudocode?

- 1.integer x,y
- 2.for(each x from 1 to 9)
3.     x=x+1
- 4.end for
- 5.Print x

**ANS: 11**

137).What will be the output of the following pseudocode?

- 1.Integer i
- 2.Set i=0
- 3.start: i=i+12
- 4.Print i
- 5.if(i<60)
6.     goto start
- 7.else
8.     print i+1
9. end if

A.     0 12 0 12 13  
B.     0 12 24 25  
C.     12 24 36 48 61  
**D.     12 24 36 48 60 61**

138).Cosider the given  $T(n)=T(n/2)+n$ .what will its solution?

A.      $O(\log n)$   
**B.     O(n)**  
C.      $O(n \log n)$   
D.      $O(n/2)$

139).What will be the output of the following pseudocode?

- 1.Integer n,d,a,b
- 2.Set n=456,a=0,b=1
- 3.while(n>0)

4.  $d = n \bmod 10$

5.  $a + d$

6.  $b = b * d$

7.  $n = n / 10$

8. End while

9. print a

10. print b

**A.15**

**120**

B. 654

120

C. 12

24

D. None of the mentioned options

140). What will be the output of the following pseudocode for  $n=99$ ?

1. Integer fun( Integer n)

2. if( $n > 100$ )\

3. return  $n - 10$

4. return fun(fun( $n + 11$ ))

5. End Function fun()

A. 110

B. 121

**C. 91**

D. 99

141). What will be the output of the following pseudocode for  $a = 84, b = 24$ ?

1. Integer fun (Integer a, Integer b)

2. while( a NOT EQUALS b)

3. If ( $a > b$ )

3. return fun (a - b, b)

5. else

6.                  return fun (a,b -a)

7.                  end if

8. end while

9. return a

10. End function fun()

A.        60

**B.**      12

C.        3

D.        2

142).which of the following conditions 0 will be printed?

1.if ( x > z)

2.        if (z<y)

3.        Print A

4.        else

5.        Print B

6.        end if

7. else

8.        if (y>z)

9.        Print C

10.        else

11.        Print D

12.        end if

13. end if

A.        y>z

B.        x>z>y

C.        z>x

D.        x>y>z

143)..Which of the following data structure uses hierarchical data model?

A Stack

B. Queue

C. Array

D. Tree

144). The minimum number of multiplications and additions required to evaluate the polynomial  $P = 4x + 3x^2 - 15x + 45$  is:

A. 3 & 3

B. 4 & 2

C. 3 & 4

D. 6 & 3

145). The number of values that can be held by an array  $\text{arr}(-1 \dots n, 1 \dots n)$  is:

A.  $n(n+1)$

B.  $n$

**C.  $n(n+2)$ .**

D.  $N^2$

146). Consider Has a hashing function which is chosen from universal collection of hash function and is used to hash  $n$  keys into a table of size  $m$ , where  $n \leq m$ , the expected number of collisions involving a particular key  $x$  is:

A. less than  $n/2$

B. less than  $n$

**C. less than 1**

D. less than  $m$

147). Which of the following would store the information of an array which is used in a program?

**A. Dope vector**

B. System table

C. Activation record

D. Symbol table

148). Which of the following is commonly used for graph representation where the nodes is list i represent the vertices that are adjacent vertex 'i'?

A. Depth-first search

B. Adjacency matrices

C. None Of the mentioned options

**D. Adjacency lists**

149). What will happen if there is no base criteria mentioned in a recursive program?

**A. It will execute infinitely**

B. It will execute until all conditions match

C. It will not be executed

D. None of these Ans:A

150). The prefix form of A-B/(C\*D AE) is:

**A. -A/B\*C D E**

B. A/BC\*D AE

C. -ABCD\*D AE

D. -/\*^ACBDE

151). Identify the point that is NOT true with respect to trees and graphs.

A. "All graphs are trees

B. A tree is a connected graph with no circuits

C. All trees are graphs

**D. All trees are graphs as having no cycles, no self-loops and still connected**

152).. The minimum number of multiplication and additions required to evaluate the polynomial P-  
 $4X^3 + 3X^2 - 15X + 45$

A. 3 & 4

**B. 3 & 3**

C. 6 & 3

D. 4 & 2

153). The height of a tree is defined as the number of edges on the longest path in the tree. The function shown in the pseudo code below is involved as height(root) to compute the height of a binary tree rooted at the tree pointer root.

```
{ if (n== NULL) return -1;  
    if (n->left==NULL)  
        if (n->right ==NULL) return 0;  
        else return B1:           //Box 1  
    else (h1 == height (n->left);  
          if (n->right ==NULL) return (1+h1);  
          else {h2=height (n->right);           //Box 2
```

```
    return B2 :  
    }  
}  
}
```

154). Which of the following are the appropriate expression for B1 and B2?

- A. B1:(height(n-> right)), 82: (1+ max (h1, h2))
- B. B1: height (n-> right), B2: max(h1,h2)
- C. B1:(1+ height (n-> right)), 82: max(h1,h2)**
- D. B1: (1+ height (n- right)), 82: (1+ max(h1,h2))

18. The number of swappings needed to sort the numbers: 8, 22, 7,9, 31, 19, 5, 13 in ascending order using bubble sort is

- A. 11
- B. 14**
- C. 13
- D. 12

155). Identify the point that is NOT true with respect to trees and graphs.

- A. Trees are less complex than graphs as having no cycles, no self-loops and still connected**
- B. A tree is a connected graph with no circuits
- C. All trees are graphs
- D. All graphs are trees

156). Let the following circular queue can accommodate maximum six elements with the following data:  
front 2 rear =4

queue= -----L, M, N,-----

What will happen after ADD O operation takes place?

- A. front = 3 rear = 4

queue = --- L,M,N,O,-----

- B. front = 2 rear 5**

**queue = -----; L,M,N,O,-----**

- C. front = 3 rear 5

queue = L,M,N,O,-----

- D. None of the mentioned options

157). To which of the following options, Binary search algorithms can not be applied?

A Sorted linear array

B. Sorted linked list

**C. Pointer array**

D. Sorted binary trees

158). How much time will be required to generate all the connected components in an undirected graph G with 'n' vertices and 'e' edges when the graph is represented by an adjacency list?

A.  $O(e + n)$

B.  $O(e)$

C.  $O(n)$

D.  $O(n^2)$

159). In the Quicksort method, a desirable choice for the partitioning element will be:

A. None of the mentioned options

B. Last element of the list

C. First element of the list

**D. Median of the list**

160). What Will Happen If there is no base criteria mentioned in a recursive program?

A. It will execute until all conditions match

**B. It will execute infinitely**

C. It will obtain a progressive approach

D. It will not be executed

25. The Prefix Form of A-B/ (C D^E ) is:

**A.-A/B\*C^DE**

B. -/\*ACBDE

C: -ABCD\*ADE

D. -A/BC\*DE

161). How many nodes are present in a complete binary tree with 16 leaf nodes?

A. 32

B. 30

C. 28

D. 14

162). In worst case scenario how many swaps are required to sort n elements using selection sort?

A. None of the mentioned options

B.  $O(n \log n)$

C.  $O(n)$

**D.  $O(n^2)$**

163). Let A, B, C, D, E be sorted sequences having lengths 20, 24, 30, 35, 50 respectively, they are to be merged into a single sequences by merging together two sequences at a time. How many comparisons are needed in the worst case by the optional algorithm?

A. 544

**B. 358**

C. 423

D. 256

164). Given expression is an example of which type of notation? (A+ B) C

**A. Infix**

B. Postfix

C. None of the mentioned options

D. Prefix

165). Which of the following would store the information of an array which is used in a program?

A. Activation Record

B. Symbol table

C. System table

**D. Dope vector**

166). Consider the following given sequences and point out the one that cannot be the degree sequence of any graph. (As per the definition the degree sequence of a simple graph is the sequence of the degrees of the nodes in the graph in

decreasing order.

1.7, 6, 5, 4, 4, 3, 2, 1

2.6, 6, 6, 6, 3, 3, 2, 2

3.7, 6, 6, 4, 4, 3, 2, 2

4.8, 7, 7, 6, 4, 2, 1, 1

Choose the correct answer from the options given below.

- A. Only 4
- B. Only 1 and 2
- C. Only 3 and 4

**D. None of the mentioned options**

167).A machine took sort name,using bubble sort.in 800 sec ,it can apporoxmatailly sort

- A. 400 names**
- B. 750 names
- C. 800 names
- D. 850 names

168).what wii be the output of the following pseudocode?

- 1.Integer x, y,z,a
  - 2.set x=2,y=1,z=5
- A=(x AND y) OR(increment z by 1)

- A. 3
- B. 1**
- C. 2
- D. 5

167).what wii be the output of the following pseudocode for n=1?

- 1.void reverse(int n)
  - 2. if (n greater than S)
  - 3. exit
  - 4. print n
  - 5. return reverse(n++)
- 6.End function reverse()

(note:n++ typically means,it is increasing the value of a variable by1)

- A. 12468
- B. It will print I infinites
- C. None of the mentioned option

**D. 12345**

168).what will be the output of the following pseudocode ?

1. Integer x ,y,z, a
2. Set x=2,y=1, z=5
3. a=(x AND y) OR (increment z by 1)

4.print a

A. 3

**B. 1**

C. 2

D. 5

Verbal

# Result & Analysis

Student: Abinaya Murugesan ... Test: CAP - 21 - Test 08

Course: Capgemini | 21 | Prep...

## Attempt 1

IP Address: 2409:4072:606:4668:8d89:5e8e:788a:834b

Tab switches: 0

OS used: Windows

Browser used: Chrome

Test Duration: 00:48:55

Test Start Time: Oct 27, 2020 | 09:09 PM

Test Submit Time: Oct 27, 2020 | 09:55 PM

### Overall score



Rank: NA

Topper score: 49.00 / 55

Average score: 27.70 / 55

Least score: 9.00 / 55

### Pseudocode



Rank: NA

Topper score: 25.00 / 25

Average score: 14.06

Least score: 1.00

### Verbal Ability



Rank: NA

Topper score: 28.00 / 30

Average score: 13.64

Least score: 4.00

### Overall Question Status



Total Questions: 55

Questions Attempted: 55

Questions Correct: 43

Question Wrong: 12

Partially Correct: 0

### Pseudocode - Question Status



Total Questions: 25

Questions Attempted: 25

Questions Correct: 24

Question Wrong: 1

Partially Correct: 0

### Verbal Ability - Question Status

A circular progress bar with a teal border and a light gray inner ring. The number '30' is displayed in the center, with a teal arc indicating 100% completion.

Total Questions: 30



Questions Attempted: 30  
Questions Correct: 19  
Question Wrong: 11  
Partially Correct: 0

[Topic wise Analysis](#)[Pseudocode](#)[Verbal Ability](#)**Question No: 1****Multi Choice Type Question**

When her schoolwork got to be too much, Pam had a tendency to \_\_\_\_\_, which always put her further behind.

- rejuvenate
- ponder
- excel
- dedicate
- procrastinate

CORRECT

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Medium

Question type: MCQ Single Correct    Subject: Aptitude      Subject: Verbal Ability

Subject: Sentence completion

- Show solution

**Question No: 2****Multi Choice Type Question**

His attitude to his boss was so \_\_\_\_\_ that it caused a good deal of repulsion

- arrogant
- hybrid

CORRECT

fulgent sycophantic**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Subject Verb Agreement Show solution**Question No: 3****Multi Choice Type Question**

Racha's glance was a \_\_\_\_\_ invitation to speak later in private about events of the meeting.

 taboo tacit      CORRECT trecherous scintillating tactfu**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Sentence completion Show solution**Question No: 4****Multi Choice Type Question****Identify which part of the sentence is incorrect**

The Old lady(a)/ went for a walk (b)/ every morning (c)/ no error(d)

 c

d b

CORRECT

 a**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Tenses Show solution**Question No: 5****Multi Choice Type Question**

canny (Synonym)

 clever

CORRECT

 stout mischevious Obstinate**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Synonyms Show solution**Question No: 6****Multi Choice Type Question**

a) The majority of English b) majors read Conrad's Heart c) of Darkness while d) at university.

 a

No error

CORRECT

 b d c**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Subject Verb Agreement Show solution**Question No:** 7**Multi Choice Type Question**

**Instruction:** Read the following passage carefully and answer the questions given below it. Certain words / expressions are given in bold in the passage to help you locate them while answering some of the questions.

The key to a nation's future is in its schools. If that is so our future is bleak. The World Bank's Development Policy Review (WBDPR) for India gives two interesting facts. One, a nationwide study on teacher presence in schools found that it is less than 50 percent in most states. Even in states like Kerala which has achieved significant progress in literacy, teacher absenteeism is as high as 40 percent. Two, more than 50 percent of children living in urban areas in eight major states are dependent on private schools for elementary education. What these data reveal is the lack of involvement on the part of the state in primary education. It appears to have abandoned its constitutionally-bound role of providing education to children to the private sector. Studies have found that most of these schools function outside the purview of all regulations and hence have no obligation to maintain minimum standards expected in teaching and learning. A recent study of rural schools claimed that more than half of class V students in five states that came low on education infrastructure could not read at the levels expected of class II students. More than two-thirds of the students could not cope with elementary maths. The refusal of the state to address the disastrous condition of primary education, both in terms of shortage of schools and poor standards, has **spawned** unaided, unregulated and expensive institutions. A **gullible** and desperate people who have realized the worth of quality education, are forced to send their children to these teaching shops. The shortage of good, affordable schools is spawning a social apartheid that will severely impact the quality and quantity of workers in the future.

As in the case of most public institutions, state-run schools are also in need of institutional

As in the case of most public institutions, state run schools are also in need of institutional reforms. These would require them to be accountable to the community rather than to a state bureaucracy. Evidence from Kerala and Nagaland suggests that community supervision, particularly parent-teacher committees, can significantly improve standards in schools. Institutional reforms are linked to political process at the grass roots. Politics that recognizes education as a right of the citizen and will build organic links between educational institutions and the community is essential for reforms to succeed.

### Which of the following facts is mentioned by the WBDPR?

- The state is not actively involved in primary education.
- Most of class V students possess reading skills much below their standard.
- Future of a nation depends upon quality of education
- In certain states more than half of the children in urban areas, CORRECT attend private primary schools
- Most of the teachers attend school regularly.

Status: Wrong

Mark obtained: 0/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct

Question No: 8

Multi Choice Type Question

- "1). Thus begins the search for relief: painkillers, ice, yoga, herbs, even surgery
- 2). Most computer users develop disorders because they ignore warnings like tingling fingers, a numb hand or a sore shoulder
- 3). They keep pointing and dragging until tendons chafe and scar tissue forms, along with bad habits that are almost impossible to change
- 4). But cures are elusive , because repetitive stress injuries present a bag of ills that often defy easy diagnosis."

2413 2314

CORRECT

 2143 2431**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Para Jumbles Show solution**Question No:** 9**Multi Choice Type Question**

After centuries of obscurity, this philosopher's thesis is enjoying a surprising \_\_\_\_

 longevity dismissal renaissance

CORRECT

 decimation**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Sentence completion Show solution**Question No:** 10**Multi Choice Type Question**

"Thank you for your letter \_\_\_\_ my outstanding debt. I will be in contact with you next week".

through beyond beside of

CORRECT

Status: Wrong

Mark obtained: 0/1

Hints used: 0

Level: Hard

Question type: MCQ Single Correct Subject: Aptitude Subject: Verbal Ability

Subject: Sentence Correction

## Question No: 11

## Multi Choice Type Question

**Instruction: Read the following passage carefully and answer the questions given below it. Certain words / expressions are given in bold in the passage to help you locate them while answering some of the questions.**

The key to a nation's future is in its schools. If that is so our future is bleak. The World Bank's Development Policy Review (WBDPR) for India gives two interesting facts. One, a nationwide study on teacher presence in schools found that it is less than 50 percent in most states. Even in states like Kerala which has achieved significant progress in literacy, teacher absenteeism is as high as 40 percent. Two, more than 50 percent of children living in urban areas in eight major states are dependent on private schools for elementary education. What these data reveal is the lack of involvement on the part of the state in primary education. It appears to have abandoned its constitutionally-bound role of providing education to children to the private sector. Studies have found that most of these schools function outside the purview of all regulations and hence have no obligation to maintain minimum standards expected in teaching and learning. A recent study of rural schools claimed that more than half of class V students in five states that came low on education infrastructure could not read at the levels expected of class II students. More than two-thirds of the students could not cope with elementary maths. The refusal of the state to address the disastrous condition of primary education, both in terms of shortage of schools and poor standards, has **spawned** unaided, unregulated and expensive institutions. A **gullible** and desperate people who have realized the worth of quality education, are forced to send their children to these teaching shops. The shortage of good, affordable schools is spawning a social apartheid that will severely impact the quality and quantity of workers in the future.

As in the case of most public institutions, state-run schools are also in need of institutional reforms. These would require them to be accountable to the community rather than to a state bureaucracy. Evidence from Kerala and Nagaland suggests that community supervision,

particularly parent-teacher committees, can significantly improve standards in schools. Institutional reforms are linked to political process at the grass roots. Politics that recognizes education as a right of the citizen and will build organic links between educational institutions and the community is essential for reforms to succeed.

**Which of the following Statements is NOT TRUE in the context of the passage?**

- In Kerala, teacher presence in schools is about 60%.
  - State run schools need institutional reforms.
  - The State has constitutionally-bound role of providing education to children.
- The schools should be made accountable to a state bureaucracy. CORRECT
- Future of a nation lies in schools

Status: Wrong

Mark obtained: 0/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct

Question No: 12

Multi Choice Type Question

**Identify which part of the sentence is incorrect**

Robbin usually (a)/ finished his (b)/ work in time(c)/ no error(d)

- d
- c
- b CORRECT
- a

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Easy  
Question type: MCQ Single Correct    Subject: Aptitude      Subject: Verbal Ability  
Subject: Tenses

Show solution

Question No: 13

Multi Choice Type Question

- A. Miss Sullivan arrived at the Keller home when Helen was seven.
- B. The deaf and blind Helen learned to communicate verbally.
- C. But eventually, Miss Sullivan's effort was rewarded.
- D. Before Helen Keller was two years old, she lost her sight and her hearing.
- E. Miss Sullivan worked closely with Helen, her new student.

CDBEA

BADCE

ABCDE

DAEBC      CORRECT

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Hard  
Question type: MCQ Single Correct    Subject: Aptitude      Subject: Verbal Ability  
Subject: Para Jumbles

Show solution

Question No: 14

Multi Choice Type Question

A pair of jeans \_\_\_\_\_ in the bathroom.

are

is

CORRECT

was were**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Sentence Correction Show solution**Question No:** 15**Multi Choice Type Question****Instruction:** Rearrange the following seven sentences A,B,C,D,E,F and G in the meaningful sequence so as to form a meaningful paragraph; then answer the questions given below.

- (A) Their superior sense of reason, showed us a path of diligence and moderation.
- (B) The society had to suffer a lot as a result of these upheavals.
- (C) The intellectual aristocracy has always occupied the foremost place in our society.
- (D) Still the country did not lack in men of integrity and tolerance.
- (E) She has honoured men of learning and sages more than men of wealth and military power.
- (F) But the modern times saw lot of upheavals at the hands of people with extremist ideas.
- (G) India is fortunate enough to have a long history of tolerance.

Which of the following will be the **SECOND** sentence in the passage? F G D E

CORRECT

 C**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct

**Question No: 16****Multi Choice Type Question**

**Instruction:** Read the following passage carefully and answer the questions given below it. Certain words / expressions are given in bold in the passage to help you locate them while answering some of the questions.

The key to a nation's future is in its schools. If that is so our future is bleak. The World Bank's Development Policy Review (WBDPR) for India gives two interesting facts. One, a nationwide study on teacher presence in schools found that it is less than 50 percent in most states. Even in states like Kerala which has achieved significant progress in literacy, teacher absenteeism is as high as 40 percent. Two, more than 50 percent of children living in urban areas in eight major states are dependent on private schools for elementary education. What these data reveal is the lack of involvement on the part of the state in primary education. It appears to have abandoned its constitutionally-bound role of providing education to children to the private sector. Studies have found that most of these schools function outside the purview of all regulations and hence have no obligation to maintain minimum standards expected in teaching and learning. A recent study of rural schools claimed that more than half of class V students in five states that came low on education infrastructure could not read at the levels expected of class II students. More than two-thirds of the students could not cope with elementary maths. The refusal of the state to address the disastrous condition of primary education, both in terms of shortage of schools and poor standards, has **spawned** unaided, unregulated and expensive institutions. A **gullible** and desperate people who have realized the worth of quality education, are forced to send their children to these teaching shops. The shortage of good, affordable schools is spawning a social apartheid that will severely impact the quality and quantity of workers in the future.

As in the case of most public institutions, state-run schools are also in need of institutional reforms. These would require them to be accountable to the community rather than to a state bureaucracy. Evidence from Kerala and Nagaland suggests that community supervision, particularly parent-teacher committees, can significantly improve standards in schools. Institutional reforms are linked to political process at the grass roots. Politics that recognizes education as a right of the citizen and will build organic links between educational institutions and the community is essential for reforms to succeed.

**what institutional reform does the passage recommend for state-run schools?**

Make them accountable to the state bureaucracy

Infrastructure should be immediately strengthened.

Give autonomy and freedom to the

schools.

- They should be subjected to community supervision.      CORRECT

- Student-teacher ratio should be increased

Status: Wrong

Mark obtained: 0/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct

Question No: 17

Multi Choice Type Question

**Instruction: Read the following passage carefully and answer the questions given below it. Certain words / expressions are given in bold in the passage to help you locate them while answering some of the questions.**

The key to a nation's future is in its schools. If that is so our future is bleak. The World Bank's Development Policy Review (WBDPR) for India gives two interesting facts. One, a nationwide study on teacher presence in schools found that it is less than 50 percent in most states. Even in states like Kerala which has achieved significant progress in literacy, teacher absenteeism is as high as 40 percent. Two, more than 50 percent of children living in urban areas in eight major states are dependent on private schools for elementary education. What these data reveal is the lack of involvement on the part of the state in primary education. It appears to have abandoned its constitutionally-bound role of providing education to children to the private sector. Studies have found that most of these schools function outside the purview of all regulations and hence have no obligation to maintain minimum standards expected in teaching and learning. A recent study of rural schools claimed that more than half of class V students in five states that came low on education infrastructure could not read at the levels expected of class II students. More than two-thirds of the students could not cope with elementary maths. The refusal of the state to address the disastrous condition of primary education, both in terms of shortage of schools and poor standards, has **spawned** unaided, unregulated and expensive institutions. A **gullible** and desperate people who have realized the worth of quality education, are forced to send their children to these teaching shops. The shortage of good, affordable schools is spawning a social apartheid that will severely impact the quality and quantity of workers in the future.

As in the case of most public institutions, state-run schools are also in need of institutional reforms. These would require them to be accountable to the community rather than to a state bureaucracy. Evidence from Kerala and Nagaland suggests that community supervision, particularly parent-teacher committees, can significantly improve standards in schools. Institutional reforms are linked to political process at the grass roots. Politics that recognizes education as a right of the citizen and will build organic links between educational institutions and the community is essential for reforms to succeed.

**What, according to the passage, does the data in WBDPR reveal?**

- Reservations are must in primary education.
- Primary education is neglected by the state CORRECT
- Constitution provides right of education to everybody
- Politics has brought the situation in education to the point of no return.
- Allocation of funds to education sector is lop sided.

**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Question No:** 18**Multi Choice Type Question****Look into the statement and change the voice.**

Champagne is drunk on new year's eve.

- They will drink champagne on new year's eve.
- People always drink champagne on new year's eve
- Let us drink champagne on new year's eve.
- People drink champagne on new year's eve CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Voices

Show solution

## Question No: 19

## Multi Choice Type Question

Synonym of CAMOUFLAGE

 Vigilant Aggressive Honour Deception

CORRECT

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Aptitude Subject: Verbal Ability

Subject: Synonyms

 Show solution

## Question No: 20

## Multi Choice Type Question

**Change the following into indirect speech.**

Jim said, "Sally, I have finished the job."

 Jim told Sally that he finished the job Jim told Sally that he had  
finished the job CORRECT Jim told Sally that he has finished the job Jim told Sally that I had finished the job

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Aptitude Subject: Verbal Ability

**Subject:** Speeches Show solution

First      1      2      Last

# Result & Analysis

Student: Abinaya Murugesan ... Test: CAP - 21 - Test 06

Course: Capgemini | 21 | Prep...

## Attempt 1

IP Address: 2409:4072:e8e:c8a8:cd91:680a:4b4d:103b

Tab switches: 1

OS used: Windows

Browser used: Chrome

Test Duration: 00:49:54

Test Start Time: Oct 26, 2020 | 09:34 AM

Test Submit Time: Oct 26, 2020 | 10:25 AM

### Overall score



Rank: NA

Topper score: 49.00 / 55

Average score: 28.07 / 55

Least score: 2.00 / 55

### Pseudocode



Rank: NA

Topper score: 23.00 / 25

Average score: 13.93

Least score: 2.00

### Verbal Ability



Rank: NA

Topper score: 29.00 / 30

Average score: 14.14

Least score: 0.00

### Overall Question Status



Total Questions: 55

Questions Attempted: 55

Questions Correct: 44

Question Wrong: 11

Partially Correct: 0

### Pseudocode - Question Status



Total Questions: 25

Questions Attempted: 25

Questions Correct: 17

Question Wrong: 8

Partially Correct: 0

### Verbal Ability - Question Status

A circular progress bar with a teal border and a light gray inner ring. The number '30' is displayed in the center, with a teal arc indicating 100% completion.

Total Questions: 30



**Questions Attempted:** 30  
**Questions Correct:** 27  
**Question Wrong:** 3  
**Partially Correct:** 0

[Topic wise Analysis](#)[Pseudocode](#)[Verbal Ability](#)**Question No: 1****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer arr[5][5],i,j

for i: 0 to 4
    for j: 0 ot 4
        if j EQUALS 0 or j EQUALS 4
            print arr[i][j]
        endif
    end for
end for
```

print boundary of matrix

print first and last row

all elements of matrix

print first and last column  
elements

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays**Question No: 2****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Character *ptr  
Character Str[] = "abcdefg"  
ptr = Str  
ptr += 5  
print ptr
```

 defg cdef abcd fg

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No:** 3**Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer i  
const Character *arr[] = {"C", "C++", "Java", "VBA"}  
const Character *(*ptr)[4] = &arr  
print ++(*ptr)[2]
```

 c++ java ava

CORRECT

 java

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Medium

Question type: MCQ Single Correct    Subject: MCQ      Subject: C Programming - Array

Subject: Arrays

Show solution

#### Question No: 4

#### Multi Choice Type Question

What will be the output of the following psuedo code?

```
Integer array[] = {0, 2, 4, 6, 7, 5, 3}
Integer n, result = 0
for (n : 0 to 6)
    result += array[n]
n=n+1
end for
print result
```

27

CORRECT

21

26

25

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Medium

Question type: MCQ Single Correct    Subject: MCQ      Subject: C Programming - Array

Subject: Arrays

Show solution

#### Question No: 5

#### Multi Choice Type Question

What will be the output of the following psuedo code?

```
Integer a = 5, b = 10, c = 15
```

```
Integer x=a+b
```

```
integer x=45  
integer y=x<<1  
integer z=y+c  
print(z)
```

garbage value

45

CORRECT

18

10

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: MCQ

Subject: C Programming - Array

Subject: Arrays

Show solution

Question No: 6

Multi Choice Type Question

What are the advantages of arrays?

Elements in an array cannot be sorted

Index of first element of an array is 1

Easier to store elements of

same data type

CORRECT

Objects of mixed data types can be stored

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: MCQ

Subject: C Programming

Subject: Control statements

Show solution**Question No: 7****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer arr[] = {4, 5, 6, 7}
```

```
Integer *p = (arr + 1)
```

```
print arr
```

```
return 0
```

 address of arr

CORRECT

 7 5 4**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No: 8****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer arr[5][5],i,j
```

```
for i: 0 to 4
```

```
    for j: 0 ot 4
```

```
        if i EQUALS j
```

```
            print arr[i][j]
```

```
        endif
```

```
    end for
```

```
end for
```

 print both diagonal

print left diagonal transpose of a matrix print right diagonal print left diagonal

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No:** 9**Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer array1[] = {1200, 200, 2300, 1230, 1543}
```

```
Integer array2[] = {12, 14, 16, 18, 20}
```

```
Integer temp, result = 0
```

```
for (temp 0 to 4)
    result += array1[temp]
end for
for (temp 0 to 4)
    result += array2[temp]
end for
print result
```

 6553 12200 6522 6533

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No:** 10**Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer array[] = {0, 2, 4, 6, 7, 5, 3}
Integer n, result = 0
for (n : 0 to 6)
    if n MOD 2 EQUALS 0
        result += array[n]
    end if
    n=n+1
end for
print result
```

 16 14

CORRECT

 15 17**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No:** 11**Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer array[] = {0 2 4 6 7 5 3}
```

```
.....  
Integer n, result = 0  
for (n : 0 to 7)  
    if n MOD 2 EQUALS 1  
        result += array[n]  
    end if  
end for  
print result
```

15

14

17

13

CORRECT

Status: Wrong

Mark obtained: 0/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: MCQ

Subject: C Programming - Array

Subject: Arrays

Show solution

Question No: 12

Multi Choice Type Question

Which of the following concepts make extensive use of arrays?

Caching

Binary trees

Scheduling of processes

Spatial locality

CORRECT

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: MCQ

Subject: C Programming

**Subject:** Control statements Show solution**Question No: 13****Multi Choice Type Question**

What will be the output of the following psuedo code?

Integer arr[5][5],i,j

```
for i: 0 to 4
    for j: 0 ot 4
        if i+j EQUALS 4
            print arr[i][j]
        endif
        j=j+1
    end for
    i=i+1
end for
```

 Transpose of a matrix print left diagonal print right diagonal      CORRECT print both diagonal**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No: 14****Multi Choice Type Question**

What will be the output of the following psuedo code?

Integer arr[] = {4, 5, 6, 7}

Integer \*p = (arr + 1)

```
print *p  
return 0
```

 4 6 5

CORRECT

 7**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No:** 15**Multi Choice Type Question**

What is the output of following program x=30?

```
void fun(Integer x)  
Integer y = 20  
print( y)  
return 0
```

 15 17 30 20

CORRECT

**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Medium

**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming**Subject:** Functions Show solution**Question No: 16****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer arr[5][5],i,j  
for i: 0 to 4  
    for j: 0 ot 4  
        print arr[i][j]  
    end for  
end for
```

 Prints a Multidimensional array CORRECT print transpose of matrix print left diagonal print left diagonal**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No: 17****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer array[] = {10, 20, 30}  
print -2[array]  
return 0
```

-30

CORRECT

 -12 garbage value -15**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct**Subject:**

MCQ

**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No: 18****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer arr[] = {4, 5, 6, 7}  
Integer *p = (arr + 1)  
print *arr + 9
```

 5 13

CORRECT

 90 12**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:**

MCQ

**Subject:** C Programming - Array**Subject:** Arrays Show solution

**Question No: 19****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer a = 5, b = 10, c = 15  
print(a+b)  
print(c<<3)
```

 15 30 some random number 15 120

CORRECT

 10 20**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No: 20****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer arr[3]={6,9,12}  
Integer x,y  
if(a[0] mod 2 equals 0)  
x=a[1]<<1  
y=a[2]>>1  
end if  
print x,y
```

 16 12 18 6

CORRECT



 9 6**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ      **Subject:** C Programming - Array**Subject:** Arrays

First      1      2      Last

# Result & Analysis

Student: Abinaya Murugesan ... Test: CAP - 21 - Test 03

Course: Capgemini | 21 | Prep...

## Attempt 1

IP Address: 2409:4072:e8e:c8a8:f92c:c7b9:701f:a98e

Tab switches: 0

OS used: Windows

Browser used: Chrome

Test Duration: 00:52:50

Test Start Time: Oct 21, 2020 | 08:27 PM

Test Submit Time: Oct 21, 2020 | 09:21 PM

### Overall score



Rank: NA

Topper score: 51.00 / 55

Average score: 33.23 / 55

Least score: 0.00 / 55

### Pseudocode



Rank: NA

Topper score: 25.00 / 25

Average score: 16.78

Least score: 0.00

### Verbal Ability



Rank: NA

Topper score: 27.00 / 30

Average score: 16.46

Least score: 0.00

### Overall Question Status



Total Questions: 55

Questions Attempted: 55

Questions Correct: 49

Question Wrong: 6

Partially Correct: 0

### Pseudocode - Question Status



Total Questions: 25

Questions Attempted: 25

Questions Correct: 24

Question Wrong: 1

Partially Correct: 0

### Verbal Ability - Question Status



Total Questions: 30

**Questions Attempted:** 30**Questions Correct:** 25**Question Wrong:** 5**Partially Correct:** 0**Topic wise Analysis****Pseudocode****Verbal Ability****Question No: 1****Multi Choice Type Question**

What will be the output of the following pseudocode when fun(345)?

```
integer func(num)
integer r,s=0,temp
while(num not equals 0)
r=num mod 10
s=s+r
num = num div 10
end while
return s
end func
```

 9 8 11 12

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming**Subject:** Control statements Show solution**Question No: 2****Multi Choice Type Question**

What will be the output of the following pseudo code?

```
integer x
set x = 7
if (x mod 3 Equals 0)
    print ("Deal")
otherwise
    print ("No Deal")
endif
```

 No Deal

CORRECT

 0 1 Deal**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming**Subject:** Control statements Show solution**Question No:** 3**Multi Choice Type Question**

What will be the output of the following C pseudo code?

```
Integer i
set i = 0
while (i NOT EQUAL 0)
    print("True\n")
end while
print("False\n")
```

 True (1 time) False True (infinite time)

False

CORRECT

 nothing**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ      **Subject:** C Programming**Subject:** Control statements Show solution**Question No: 4****Multi Choice Type Question**

What will be the output of the following pseudocode for the given inputs a=4 b=5 ?

integer fun(integer a, integer b)

  a = a ^ b

  b = a ^ b

  a = a ^ b

  return b

end fun

Note:^ indicates bitwise xor operation

 3 5 1 4

CORRECT

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ      **Subject:** C Programming**Subject:** Control statements Show solution**Question No: 5****Multi Choice Type Question**

What will be the output of the following pseudocode when func(4) is passed ?

```
integer func(integer num)
integer count = 0
while(num)
increment count by 1
num=num >> 1
end while
return count
end func
```

 4 3

CORRECT

 6 9**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming**Subject:** Control statements Show solution**Question No:** 6**Multi Choice Type Question**

What will be the output of the following pseudo code?

```
Integer a,x
set a= 10
if (a Not Equals 7)
    print "TRUE "
endif
x = 10
if (x Not Equals 10 )
    print "TRUE"
endif
```

 FALSE

TRUE TRUE TRUE

CORRECT

 TRUE FALSE**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ      **Subject:** C Programming**Subject:** Control statements Show solution**Question No:** 7**Multi Choice Type Question**

What will be the output of the following pseudocode fun(4) ?

```
integer fun(num)
integer s=0
if(n==1)
    return 1
else
    s=num+fun(num-1)
end if
return s
end fun
```

 7 8 9 10

CORRECT

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ      **Subject:** C Programming**Subject:** Control statements Show solution

Show solution**Question No: 8****Multi Choice Type Question**

What will be the output of the following pseudo code?

```
integer x,y,z  
set x=13,y=11  
z=(x+y) div 3  
if (z Equals 8)  
    print x  
otherwise  
    print y
```

Note:div indicates(/) division operator

 11 7 13

CORRECT

 8**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming**Subject:** Control statements Show solution**Question No: 9****Multi Choice Type Question**

What will be the output of the following pseudocode for the given input n=8 ?

```
integer fun(integer n)
```

```
if(n == 1)  
return 0;  
otherwise  
return 1 + fun(n/2)  
end if  
end fun
```

3

CORRECT

 6 5 2**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming**Subject:** Control statements Show solution**Question No: 10****Multi Choice Type Question**

What will be the output of the following C pseudo code?

```
n=3
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()
```

 35 20 10

CORRECT

 45

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Medium

Question type: MCQ Single Correct    Subject: MCQ      Subject: C Programming

Subject: Control statements

Show solution

Question No: 11

Multi Choice Type Question

1. What will be the output of the following pseudo code?

```
Integer i  
set i= 3  
Integer k  
set k= i MOD 2  
print k
```

2

1

CORRECT

3

-1

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Easy

Question type: MCQ Single Correct    Subject: MCQ      Subject: C Programming

Subject: Control statements

Show solution

Question No: 12

Multi Choice Type Question

What will be the output of the following C pseudo code?

```
integer i=0  
while(i not equals 4)  
increment i by 1  
end while  
print(i)
```

2 4 CORRECT 1 3**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ      **Subject:** C Programming**Subject:** Control statements Show solution**Question No: 13****Multi Choice Type Question**

What will be the output of the following pseudo code?

```
integer x,y,z  
set x=9,y=3  
z=x-y  
if((y+z) mod x equals 1)  
print 1  
otherwise  
print 0
```

 1 4 2 0 CORRECT**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ      **Subject:** C Programming

**Subject:** Control statements Show solution**Question No: 14****Multi Choice Type Question**

What will be the output of the following pseudo code?

Integer a,b,c

```
set a= 10  
set b = 5  
set c = 5  
Integer d  
set d = a == (b + c)  
print d
```

 1

CORRECT

 5 10 15**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming**Subject:** Control statements Show solution**Question No: 15****Multi Choice Type Question**

What will be the output of the following C pseudo code?

```
integer i=0  
while(i<4)  
increment i by 1  
end while  
print(i)
```

 1

 4

CORRECT

 3 2**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ      **Subject:** C Programming**Subject:** Control statements Show solution**Question No:** 16**Multi Choice Type Question**

What will be the output of the following C pseudo code?

```
integer i=0
do
    print "In while loop "
    while (i)
        print "After loop\n"
```

 After loop In while loop Infinite loop In while loop  
after loop

CORRECT

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ      **Subject:** C Programming

**Subject:** Control statements Show solution**Question No: 17****Multi Choice Type Question**

What will be the output of the following pseudocode for the given inputs x=5,y=2 ?

```
integer fun(integer x, integer y)
if(x == 0)
return y;
otherwise
return fun(x - 1, x + y);
end if
end fun
```

 17      CORRECT 15 12 19**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ      **Subject:** C Programming**Subject:** Control statements Show solution**Question No: 18****Multi Choice Type Question**

What will be the output of the following C code?

```
Integer i = 0, j = 0;
while(i<5)
if(i==3)
print "Triple"
jump out of the loop
end if
i=i+1
```

end while

Triple Triple Triple

Triple CORRECT

Infinite Triple

Triple Triple

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: MCQ Subject: C Programming

Subject: Control statements

Show solution

Question No: 19

Multi Choice Type Question

What will be the output of the following C pseudo code?

```
Integer i  
set i = 0  
do  
    print "Hello"  
while (i != 0)
```

Hello Hello

H is printed infinite times

Hello CORRECT

Nothing

Status: Correct Mark obtained: 1/1 Hints used: 0 Level: Medium

Question type: MCQ Single Correct Subject: MCQ Subject: C Programming

**Subject:** Control statements Show solution**Question No: 20****Multi Choice Type Question**

What will be the output of the following C pseudo code?

```
Integer i  
set i = 0  
do  
    Increment i by 1  
    print "In while loop\n"  
    while (i < 3)
```

 nothing

- In while loop
- In while loop
- In while loop

CORRECT

 "In while loop"

- In while loop
- In while loop

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming**Subject:** Control statements Show solution

First    1    2    Last

# Result & Analysis

Student: Abinaya Murugesan ... Test: CAP - 21 - Test 02

Course: Capgemini | 21 | Prep...

## Attempt 1

IP Address: 2409:4072:800:fe46:b4c7:ff93:2fa5:b68e

Tab switches: 1

OS used: Windows

Browser used: Chrome

Test Duration: 00:48:31

Test Start Time: Oct 20, 2020 | 09:00 PM

Test Submit Time: Oct 20, 2020 | 09:50 PM

### Overall score



Rank: NA

Topper score: 48.00 / 50

Average score: 30.22 / 50

Least score: 0.00 / 50

### Pseudocode



Rank: NA

Topper score: 25.00 / 25

Average score: 15.89

Least score: 2.00

### Verbal Ability



Rank: NA

Topper score: 24.00 / 25

Average score: 14.54

Least score: 0.00

### Overall Question Status



Total Questions: 50

Questions Attempted: 50

Questions Correct: 40

Question Wrong: 10

Partially Correct: 0

### Pseudocode - Question Status



Total Questions: 25

Questions Attempted: 25

Questions Correct: 20

Question Wrong: 5

Partially Correct: 0

### Verbal Ability - Question Status

A circular progress bar with a teal border and a light gray inner ring. The number '25' is displayed in the center, with '/ 25' written below it.

Total Questions: 25



Questions Attempted: 25  
Questions Correct: 20  
Question Wrong: 5  
Partially Correct: 0

[Topic wise Analysis](#)[Pseudocode](#)[Verbal Ability](#)**Question No: 1****Multi Choice Type Question**

```
1 What will be the output of the following pseudocode ?  
2 integer i = 0  
3 integer sum  
4 while ( i less than equal 6 )  
5 i= i+1  
6 sum = i + 6  
7 end while  
8 print sum  
9
```

 24 23 27

CORRECT

 21**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** C Programming**Subject:** Branching and Looping**Question No: 2****Multi Choice Type Question**

Minimum number of queues required for priority queue implementation?

4

3

5

2

CORRECT

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Queues

Question No: 3

Multi Choice Type Question

```
1 integer a = 60, b = 35, c = -30
2 What will be the output of the following two statements:
3 print ( a > 45 OR b > 50 AND c > 10 )
4 print ( ( a > 45 OR b > 50 ) AND c > 10 )
5
6
```

1 and 0

CORRECT

0 and 0

1 and 1

- 0 and 1

**Status:** Wrong    **Mark obtained:** 0/1    **Hints used:** 0    **Level:** Medium

## Question type: MCQ Single Correct Subject: MCQ

Subject: C Programming - Operators Subject: Logical Operators

- Show solution

## Question No: 4

## Multi Choice Type Question

The number of edges from the node to the deepest leaf is called \_\_\_\_\_ of the tree.

- Height CORRECT

- None of the mentioned

- Depth

- Length

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

## Subject: Binary tree

## **Question No: 5**

## **Multi Choice Type Question**

```
1 integer a = 10, b = 35, c = 5
2 print a * b / c - c
3
```

60 70 65

CORRECT

 Error**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Operators **Subject:** Arithmetic Operators Show solution**Question No: 6****Multi Choice Type Question**

```
1 What will be the output of the following pseudocode ?
2 integer i=1;
3 integer sum=0, count=0
4 while(i less than or equals 5)
5 count=count+1
6 i=i+1
7 sum=sum+5
8 end while
9 print sum
10
11
```

 26 1

0 25

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** C Programming**Subject:** Operators and Expressions**Question No: 7****Multi Choice Type Question**

1 What will be the output of the following pseudo-code statements:  
2 integer a = 984, b=10  
3 integer c  
4 c = a / b  
5 print c  
6  
7

 98.4 984 98

CORRECT

 Error**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Operators **Subject:** Arithmetic Operators

**Question No: 8****Multi Choice Type Question**

```
1 What will be the value of t if a = 5 , b = 8?  
2  
3 Read a,b  
4 Function mul(a, b)  
5 t = 0  
6 while (b not equal to 0)  
7 t = t + a  
8 b=b-1  
9 End While  
10 return t  
11 End Function  
12
```

 None 49 40

CORRECT

 45**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** C Programming**Subject:** Branching and Looping**Question No: 9****Multi Choice Type Question**

```
1 What will be the output of the following pseudo-code statements:  
2 integer a = 984  
3 integer b= 10, c,d  
4 c = a-b  
5 d= c mod 97  
6 print c  
7
```

98 984 4

CORRECT

 Error**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Operators **Subject:** Arithmetic Operators**Question No: 10****Multi Choice Type Question**

```
1 What will be the output of the following pseudo code?  
2 Input m=9,n=6  
3 m=m+1  
4 N=n-1  
5 m=m+n  
6 if m>n  
7 print m  
8 else  
9 print n  
10  
11
```

6 15

CORRECT

 5 10**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** C Programming**Subject:** Branching and Looping Show solution**Question No:** 11**Multi Choice Type Question**

From a complete graph, by removing maximum \_\_\_\_\_ edges, we can construct a spanning tree.

 e-n-1 e-n+1

CORRECT

 n+e-1 n-e+1**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** Data Structures**Subject:** Graphs**Question No:** 12**Multi Choice Type Question**

The number of edges from the root to the node is called \_\_\_\_\_ of the tree.

- Length
- Height
- None of the mentioned

- Depth

CORRECT

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Easy  
Question type: MCQ Single Correct Subject: Programming Subject: Data Structures  
Subject: Binary tree

## Question No: 13

## Multi Choice Type Question

```
1 What will be output of the following pseudocode
2
3     Integer a,b,c
4     Set a=8,b=10,c=6
5     if(a>c AND (b+c) >a)
6         print a
7     end if
8     if(c>b OR (a+c) >b)
9         print b
10    end if
11    if((b+c) mod a equals 0)
12        print c
13    end if
14
```

- 0

- 8 10 6

CORRECT

- 2

- 1

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** C Programming**Subject:** Operators and Expressions Show solution**Question No: 14****Multi Choice Type Question**

Minimum number of spanning tree in a connected graph is

 0 n 1

CORRECT

 n(n-1)**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** Data Structures**Subject:** Graphs**Question No: 15****Multi Choice Type Question**

```
1 Predict the output of the following pseudo-code
2
3 integer a = 50, b = 25, c = 5
4 print a * b / c + c
5
```

255

CORRECT

 120 250 125**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Operators **Subject:** Arithmetic Operators Show solution**Question No:** 16**Multi Choice Type Question**

```
1 What will be output of the following pseudocode  
2  
3     Integer a,b  
4     Set a=6,b=8  
5     a=a+b  
6     b=a-b  
7     a=a-b  
8     a=a+6  
9     printa,b  
10
```

 14 8 8 6 6 8

14 6

CORRECT

**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Medium**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** C Programming**Subject:** Operators and Expressions Show solution**Question No:** 17**Multi Choice Type Question**

```
1 What will be the output of the following pseudocode ?  
2 integer i = 1  
3 integer sum = 0  
4 while ( i less than 5 )  
5 sum = i*i  
6 i = i + 1  
7 end while  
8 print sum  
9
```

 16

CORRECT

 20 25 10**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Easy**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** C Programming**Subject:** Branching and Looping**Question No:** 18<https://talentio627.examly.io/result?id=287820206>**Multi Choice Type Question**

1 What will be the output of the following pseudo code?  
2 Input f=6, g=9 and set sum=0  
3 Integer n  
4 if(g>f)  
5 for(n=f;n<g;n=n+1)  
6 sum=sum+n  
7 End for loop  
8 else  
9 print error message  
10 print sum  
11

 6 9 21

CORRECT

 15**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** C Programming**Subject:** Branching and Looping Show solution**Question No:** 19**Multi Choice Type Question**

What is a full binary tree?

 Each node has exactly zero or two children

CORRECT

 All the leaves are at the same level

Each node has exactly one or two children

Each node has exactly two children

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Binary tree

Question No: 20

Multi Choice Type Question

The Time Complexity of Quick Sort when all the elements are arranged in the increasing order

None of the above

Cannot be determined

$O(n^2)$

CORRECT

$O(n \log n)$

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Algorithms

Subject: Searching and Sorting

First      1      2      Last

# Result & Analysis

Student: Abinaya Murugesan ... Test: CAP - 21 - Test 01

Course: Capgemini | 21 | Prep...

## Attempt 1

IP Address: 2409:4072:800:fe46:64e9:876f:f407:cc37

Tab switches: 0

OS used: Windows

Browser used: Chrome

Test Duration: 00:53:32

Test Start Time: Oct 19, 2020 | 09:00 PM

Test Submit Time: Oct 19, 2020 | 09:55 PM

### Overall score



Rank: NA

Topper score: 44.00 / 50

Average score: 27.57 / 50

Least score: 9.00 / 50

### Verbal Ability



Rank: NA

Topper score: 24.00 / 25

Average score: 13.32

Least score: 6.00

### Pseudocode



Rank: NA

Topper score: 24.00 / 25

Average score: 14.25

Least score: 0.00

### Overall Question Status



Total Questions: 50

Questions Attempted: 50

Questions Correct: 39

Question Wrong: 11

Partially Correct: 0

### Verbal Ability - Question Status



Total Questions: 25

Questions Attempted: 25

Questions Correct: 17

Question Wrong: 8

Partially Correct: 0

### Pseudocode - Question Status

Total Questions: 25



**Questions Attempted:** 25  
**Questions Correct:** 22  
**Question Wrong:** 3  
**Partially Correct:** 0

[Topic wise Analysis](#)[Verbal Ability](#)[Pseudocode](#)**Question No: 1****Multi Choice Type Question**

What are the main applications of tree data structure?

- 1) Manipulate hierarchical data
- 2) Make information easy to search
- 3) Manipulate sorted lists of data
- 4) Router algorithms
- 5) Form of a multi-stage decision making, like Chess Game.
- 6) As a workflow for compositing digital images for visual effects

1,2,3,4,5 and 6

CORRECT

1456

1,2,4,5,6

1,2,4,5

**Status:** Correct

**Mark obtained:** 1/1

**Hints used:** 0

**Level:** Medium

**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** Data Structures

**Subject:** Binary tree

**Question No: 2****Multi Choice Type Question**

Which of the below given sorting techniques has highest best-case runtime complexity?

Selectionsort

CORRECT

Heapsort Quicksort Insertionsort**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Easy**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** Algorithms**Subject:** Searching and Sorting**Question No: 3****Multi Choice Type Question**

```
1 What will be output of the following pseudocode  
2  
3     Integer x  
4     Set x=259  
5 if(x equals 0)  
6     print "0"  
7     otherwise  
8 if(x mod 9 equals 0)  
9     print "9"  
10    otherwise  
11    print x mod 9  
12    end if  
13
```

 none 7

CORRECT

 16 8**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Medium**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** C Programming<https://talentio627.examly.io/result?id=287809211>

**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** C Programming**Subject:** Branching and Looping Show solution**Question No: 4****Multi Choice Type Question**

Which of the following are representations of Graphs?

- Adjacency Matrix and  
 Adjacency List      CORRECT

- Activity Network Diagrams
- Bi-Connected Components
- Spanning Tree

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Easy**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** Data Structures**Subject:** Graphs**Question No: 5****Multi Choice Type Question**

```
1 What will be output of the following pseudo code
2     Integer a[5],b[5],c[5],k,l
3     Set a[5]={1,2,3,4,5}
4     Set b[5]={6,7,8,9,10}
5     for(each k from 0 to 4)
6         c[k]=a[k]+b[k]
7     end for
8     for(each l from 0 to 4)
9         print c[l]
10    end for
11
```

11 12 13 14 15 none 7 9 11 13 15

CORRECT

 7 8 9 10**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No: 6****Multi Choice Type Question**

Which data structure is best suited for converting recursive implementation to iterative implementation of an algorithm?

 Stack

CORRECT

 Graph Tree Linkedlist**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct**Subject:** Programming**Subject:** Data Structures**Subject:** Stacks**Question No: 7****Multi Choice Type Question**

In a doubly linked list, the number of pointers affected for an insertion operation will be?

None of these

CORRECT

 1 4 0**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** Data Structure - Linked List **Subject:** Doubly linked list**Question No: 8****Multi Choice Type Question**

1 What will be output of the following pseudo code  
2  
3 Intger c,n  
4 Set n=6  
5 set c=n  
6 print c //line 4  
7 c=c-2  
8 if(c>0)  
9 go to line 4  
10 end if  
11

 6 4 2

CORRECT

 0 2 4 6 2 4 6 6 4 2 0

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** C Programming**Subject:** Branching and Looping Show solution**Question No:** 9**Multi Choice Type Question**

```
1 What will be output of the following pseudo code
2
3     Integer x,y,z,a
4     Set y=2
5     set x=(y=y*2)+(z=a=y)
6     print x
7
8
```

 8

CORRECT

 5 9 7**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** C Programming**Subject:** Operators and Expressions Show solution**Question No:** 10**Multi Choice Type Question**

1 What will be output of the following pseudo code  
2  
3     Integer x,y,z,a  
4     Set y=2  
5 set x=(y=y\*2)+(z=4)  
6     print x  
7

 9 5 7 8

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** C Programming**Subject:** Operators and Expressions**Question No: 11****Multi Choice Type Question**

The maximum number of nodes in a binary tree with depth 'k'

  $2^{(k+1)} - 1$   $2^k - 1$   $2^{(k+1)}$

2k - 1

CORRECT

Status: Wrong

Mark obtained: 0/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Binary tree

Question No: 12

Multi Choice Type Question

```
1 What will be output of the following pseudocode
2
3     Integer x,y,z
4     x=0
5     y=1
6     x=y=z=8
7     print x
8
9
```

 0 1 8

CORRECT

 none

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: C Programming

Subject: Operators and Expressions

 Show solution

In Binary search tree inorder traversals will give nodes in?

Decreasing order

Random order

Non-Decreasing order

CORRECT

None of the above

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

Subject: Binary Search Tree

Question No: 14

Multi Choice Type Question

1 What will be output of the following pseudo code

2

3        Integer x,y

4        for(each x from 1 to 11)

5            x=x+2

6            end for

7            print x

8

13

CORRECT

11

12

10

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Easy  
Question type: MCQ Single Correct    Subject: Programming    Subject: C Programming  
Subject: Branching and Looping

Show solution

## **Question No: 15**

## **Multi Choice Type Question**

Which one of the following is an application of Queue Data Structure?

All the above

## Load Balancing

- Resource sharing among multiple consumers

Asynchronous Data Transfer

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Easy

Question type: MCQ Single Correct Subject: Programming Subject: Data Structures

## Subject: Queues

## **Question No: 16**

## **Multi Choice Type Question**

Which of the following graph search algorithm uses stack data structure ?

## Topological Sort

## Warshall's Algorithm

## Breadth First Search

Depth First Search CORRECT**Status:** Wrong **Mark obtained:** 0/1 **Hints used:** 0 **Level:** Medium**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** Data Structures**Subject:** Graphs**Question No:** 17**Multi Choice Type Question**

The time required to search an element in a linked list of length n is?

 O(n) CORRECT O(1) O(logn) O(nlogn)**Status:** Correct **Mark obtained:** 1/1 **Hints used:** 0 **Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** Data Structure - Linked List **Subject:** Linked list**Question No:** 18**Multi Choice Type Question**

```
1 What will be output of the following pseudocode
2
3     Integer x,y,z
4     x=0
5     y=1
6     x=y=z=1
7     print x
8
9
```

none 0 1

CORRECT

 8**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Programming **Subject:** C Programming**Subject:** Operators and Expressions**Question No:** 19**Multi Choice Type Question**

1 How many times A will be printed for the following pseudocode  
2 Integer a[],k,t,m  
3 Set a[]={25,20,30,18,17}  
4 Set t=0  
5 for(each k from 0 to 4)  
6 t=t+a[k]  
7 if(t mod 2 equals 1)  
8 print true  
9 otherwise  
10 print false  
11 end for  
12 m=t/5  
13 print m

 true false true true false

20

false true true true false

 20

true false true true false

15

true truetruetrue false 22

## CORRECT

**Status:** Correct

Mark obtained: 1/1

Hints used: 0

**Level:** Medium

Question type: MCQ Single Correct Subject: MCQ

## Subject: C Programming - Array

## Subject: Arrays

## **Question No: 20**

## Multi Choice Type Question

```
1 | What will be output of the following pseudocode  
2 integer i=8,j,k=4  
3 if(i equals 8)  
4 j=i*k  
5 print j  
6 end if  
7  
8
```

32

## CORRECT

36

45

28

Status: Correct

**Mark obtained: 1/1**

Hints used: 0

**Level:** Easy

Question type: MCQ Single Correct Subject: Programming Subject: C Programming

**Subject:** Branching and Looping

First      1      2      Last

# Result & Analysis

Student: Abinaya Murugesan ... Test: CAP - 21 - Test 04

Course: Capgemini | 21 | Prep...

## Attempt 1

IP Address: 2409:4072:e8e:c8a8:4886:2b51:6de7:d5e4

Tab switches: 1

OS used: Windows

Browser used: Chrome

Test Duration: 00:54:57

Test Start Time: Oct 22, 2020 | 08:51 PM

Test Submit Time: Oct 22, 2020 | 09:47 PM

### Overall score



Rank: NA

Topper score: 50.00 / 55

Average score: 30.34 / 55

Least score: 0.00 / 55

### Pseudocode



Rank: NA

Topper score: 23.00 / 25

Average score: 14.37

Least score: 0.00

### Verbal Ability



Rank: NA

Topper score: 28.00 / 30

Average score: 15.96

Least score: 0.00

### Overall Question Status



Total Questions: 55

Questions Attempted: 55

Questions Correct: 42

Question Wrong: 13

Partially Correct: 0

### Pseudocode - Question Status



Total Questions: 25

Questions Attempted: 25

Questions Correct: 21

Question Wrong: 4

Partially Correct: 0

### Verbal Ability - Question Status



Total Questions: 30



**Questions Attempted:** 30  
**Questions Correct:** 21  
**Question Wrong:** 9  
**Partially Correct:** 0

[Topic wise Analysis](#)[Pseudocode](#)[Verbal Ability](#)**Question No: 1****Multi Choice Type Question**

What will be the output of the following C code?

```
Integer i = 0, j = 0;
while(i<5)
if(i==3)
print "Triple"
jump out of the loop
end if
i=i+1
end while
```

 Triple

CORRECT

 Triple Triple Triple

 Triple Triple

 Infinite Triple

**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Medium

**Question type:** MCQ Single Correct **Subject:** MCQ

**Subject:** C Programming

**Subject:** Control statements

 Show solution
**Question No: 2****Multi Choice Type Question**

What will be the output of the following pseudo code?

```
int x=3,y=2,z=5,p,q  
q=z*3  
if(q mod x equals 0)  
    print y  
otherwise  
p=x>>2  
print p  
end if
```

 2

CORRECT

 3 5 15**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming**Subject:** Control statements Show solution**Question No:** 3**Multi Choice Type Question**

What will be the output of the following C pseudo code?

```
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 8 6 8 10 6

CORRECT

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ      **Subject:** C Programming**Subject:** Control statements Show solution**Question No: 4****Multi Choice Type Question**

What will be the output of the following pseudo code?

```
Integer x,p=3,q=2,y,z  
x = 5 MOD 2  
y=p+x  
z=y mod 2  
print z
```

 1 0

CORRECT

 5 3**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ      **Subject:** C Programming**Subject:** Control statements Show solution

**Question No: 5****Multi Choice Type Question**

What will be the output of the following C pseudo code?

```
Integer h  
set h = 8  
Integer b  
set b = 4  
  
print ( h mod b)
```

 0

CORRECT

 3 4 5**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming**Subject:** Control statements Show solution**Question No: 6****Multi Choice Type Question**

What will be the output of the following pseudocode for n=3,a=4,b=5

```
void crazy(Integer n,Integer a,Integer b)  
if (n <= 0)  
return  
endif  
crazy(n-1, a, b+n)  
print n,a,b  
crazy(n-1, b, a+n)
```

1 4 10

2 4 8

1 8 6

 3 4 5

1 5 9

CORRECT

2 5 7

1 7 7

3 4 5

1 4 10

2 4 8

1 8 6

1 5 9

2 5 7

1 7 7

1 4 10

2 4 8

1 8 6

3 4 5

3 4 5

1 5 9

2 5 7

1 7 7

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: MCQ

Subject: C Programming

Subject: Functions

Show solution

### Question No: 7

### Multi Choice Type Question

Consider the following C function:

```
Integer f(Integer n)
    static Integer i = 1
    if (n >= 5)
        return n
    endif
    n = n+i
    i=i+1
    return f(n)
```

The value returned by f(1) is

Note: Static holds values between successive functioncalls

 6 7 CORRECT 8**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct**Subject:**

MCQ C Programming

**Subject:** Functions Show solution**Question No:** 8**Multi Choice Type Question**

What will be the Output of following program for n=1000 ?

```
void printval(Integer n)
if (n > 4000)
    return
endif
print n
printval(2*n)
print n
```

 1000 2000 4000 1000 2000 4000 4000 2000  
1000

CORRECT

 1000 2000 4000 2000 1000 1000 2000 2000 1000**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct**Subject:**

MCQ C Programming

**Subject:** Functions

Show solution**Question No: 9****Multi Choice Type Question**

Consider the following recursive function.

```
void get (Integer n)
```

```
if (n < 1)
return
endif
get(n-1)
get(n-3)
print n
```

How many times function gets called when n=6 ?

 15 25

CORRECT

 35 45**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming**Subject:** Functions Show solution**Question No: 10****Multi Choice Type Question**

What will be the output of the following pseudo code?

```
Integer x,z
set x= 1
set z = 3
Integer y
set y = x << 3
print y
```

0 1 2 8

CORRECT

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ      **Subject:** C Programming**Subject:** Control statements Show solution**Question No: 11****Multi Choice Type Question**

Consider the following recursive function fun(x, y). What is the value of fun(4, 3)

```
Integer fun(Integer x, Integer y)
if (x == 0)
    return y
endif
return fun(x - 1, x + y)
```

 13

CORRECT

 12 9 10**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Easy

**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming**Subject:** Functions Show solution**Question No: 12****Multi Choice Type Question**

What will be the output of the following pseudo code?

```
Integer x ,y, z
```

```
set x= 1
```

```
set y = 0
```

```
set z = 5
```

```
Integer a
```

```
set a = x AND y OR z
```

```
print z
```

Note: AND ,OR refers to logical operators

 6 5

CORRECT

 0 1**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming**Subject:** Control statements Show solution**Question No: 13****Multi Choice Type Question**

What does the following function do for any two values of x and y?

```
Integer fun(Integer x, Integer y)
```

```
if (y == 0)  
return 0
```

```
endif  
return (x + fun(x, y-1))
```

 x + y x + x\*y x\*y

CORRECT

 x^y**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming**Subject:** Functions Show solution**Question No:** 14**Multi Choice Type Question**

What will be the output of following pseudo code?

```
Integer i=0  
set i = 0,count=0  
while (i < =3)  
    Increment i by 1  
    count=count+1  
end while  
print count.
```

 2 3 4

CORRECT

 1

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Medium  
Question type: MCQ Single Correct Subject: MCQ      Subject: C Programming  
Subject: Control statements

Show solution

Question No: 15

Multi Choice Type Question

What does the following function print for n = 25?

```
void fun(Integer n)
if (n == 0)
    return
endif
print n%2
fun(n/2)
```

11001

10011

CORRECT

11111

00000

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Easy  
Question type: MCQ Single Correct Subject: MCQ      Subject: C Programming  
Subject: Functions

Show solution

Question No: 16

Multi Choice Type Question

Consider the same recursive function that takes two arguments

```
Integer foo( Integer n, Integer r)
if (n > 0)
    return (n%r + foo (n/r, r ))
```

```
otherwise  
    return 0  
endif
```

What is the return value of the function foo when it is called as foo(513, 2)?

 9 8 5 2

CORRECT

**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming**Subject:** Functions Show solution**Question No: 17****Multi Choice Type Question**

What will be the output of the following pseudo code?

```
Integer x,y,z,q,r  
set x = 1  
set y = 0  
set z = 3  
p=z-x  
q=p*z  
r=q/3  
print r
```

 3 1 2

CORRECT

0**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ    **Subject:** C Programming**Subject:** Control statements Show solution**Question No:** 18**Multi Choice Type Question**

What will be output of following program for n=2 ?

Integer fun(Integer n)

if (n == 4)

return n

otherwise

return 2\*fun(n+1)

 4 8 16

CORRECT

 20**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Easy**Question type:** MCQ Single Correct    **Subject:** MCQ    **Subject:** C Programming**Subject:** Functions Show solution**Question No:** 19**Multi Choice Type Question**

Consider the function given below.

Integer f(Integer j)

static Integer i = 50

```
status integer . . .
Integer k
if (i == j)
    print ("something")
    k = f(i)
    return 0
otherwise
    return 0
endif
```

Which one of the following option satisfies when  $j=50$ ?

- The function returns 0 for all values of  $j$ .
- The function prints the string something for all values of  $j$ .
- The function returns 0 when  $j = 50$ .

The function will exhaust the runtime stack or run into an infinite loop when  $j = 50$

CORRECT

Recursion

Status: Correct	Mark obtained: 1/1	Hints used: 0	Level: Easy
Question type: MCQ Single Correct	Subject: MCQ	Subject: C Programming	
Subject: Functions			

- Show solution

Question No: 20

Multi Choice Type Question

What will be the output of the following C pseudo code?

```
Integer i
set i = 2
do
    print "Hi"
    while (i < 2)
```

nothing Hi Hi Hi

CORRECT

 varies**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ      **Subject:** C Programming**Subject:** Control statements Show solution

First      1      2      Last

# Result & Analysis

Student: Abinaya Murugesan ... Test: CAP - 21 - Test 06

Course: Capgemini | 21 | Prep...

## Attempt 1

IP Address: 2409:4072:e8e:c8a8:cd91:680a:4b4d:103b

Tab switches: 1

OS used: Windows

Browser used: Chrome

Test Duration: 00:49:54

Test Start Time: Oct 26, 2020 | 09:34 AM

Test Submit Time: Oct 26, 2020 | 10:25 AM

### Overall score



Rank: NA

Topper score: 49.00 / 55

Average score: 27.30 / 55

Least score: 0.00 / 55

### Pseudocode



Rank: NA

Topper score: 23.00 / 25

Average score: 14.16

Least score: 3.00

### Verbal Ability



Rank: NA

Topper score: 27.00 / 30

Average score: 13.87

Least score: 0.00

### Overall Question Status



Total Questions: 55

Questions Attempted: 55

Questions Correct: 44

Question Wrong: 11

Partially Correct: 0

### Pseudocode - Question Status



Total Questions: 25

Questions Attempted: 25

Questions Correct: 17

Question Wrong: 8

Partially Correct: 0

### Verbal Ability - Question Status

Total Questions: 30



**Questions Attempted:** 30  
**Questions Correct:** 27  
**Question Wrong:** 3  
**Partially Correct:** 0

**Topic wise Analysis****Pseudocode****Verbal Ability****Question No: 1****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer arr[5][5],i,j

for i: 0 to 4
    for j: 0 ot 4
        if j EQUALS 0 or j EQUALS 4
            print arr[i][j]
        endif
    end for
end for
```

print boundary of matrix

print first and last row

all elements of matrix

print first and last column  
elements

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays**Question No: 2****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Character *ptr  
Character Str[] = "abcdefg"  
ptr = Str  
ptr += 5  
print ptr
```

 defg cdef abcd fg

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No:** 3**Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer i  
const Character *arr[] = {"C", "C++", "Java", "VBA"}  
const Character *(*ptr)[4] = &arr  
print ++(*ptr)[2]
```

 c++ java ava

CORRECT

 java

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No: 4****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer array[] = {0, 2, 4, 6, 7, 5, 3}
```

```
Integer n, result = 0
```

```
for (n : 0 to 6)
```

```
    result += array[n]
```

```
n=n+1
```

```
end for
```

```
print result
```

 27

CORRECT

 21 26 25**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No: 5****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer a = 5, b = 10, c = 15
```

```
Integer x=a+b
```

```
integer x=45  
integer y=x<<1  
integer z=y+c  
print(z)
```

garbage value

45

CORRECT

18

10

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: MCQ

Subject: C Programming - Array

Subject: Arrays

Show solution

Question No: 6

Multi Choice Type Question

What are the advantages of arrays?

Elements in an array cannot be sorted

Index of first element of an array is 1

Easier to store elements of

same data type

CORRECT

Objects of mixed data types can be stored

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: MCQ

Subject: C Programming

Subject: Control statements

Show solution**Question No: 7****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer arr[] = {4, 5, 6, 7}
```

```
Integer *p = (arr + 1)
```

```
print arr
```

```
return 0
```

 address of arr

CORRECT

 7 5 4**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No: 8****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer arr[5][5],i,j
```

```
for i: 0 to 4
```

```
    for j: 0 ot 4
```

```
        if i EQUALS j
```

```
            print arr[i][j]
```

```
        endif
```

```
    end for
```

```
end for
```

 print both diagonal

print left diagonal transpose of a matrix print right diagonal print left diagonal

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No:** 9**Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer array1[] = {1200, 200, 2300, 1230, 1543}
```

```
Integer array2[] = {12, 14, 16, 18, 20}
```

```
Integer temp, result = 0
```

```
for (temp 0 to 4)
    result += array1[temp]
end for
for (temp 0 to 4)
    result += array2[temp]
end for
print result
```

 6553 12200 6522 6533

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No:** 10**Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer array[] = {0, 2, 4, 6, 7, 5, 3}
Integer n, result = 0
for (n : 0 to 6)
    if n MOD 2 EQUALS 0
        result += array[n]
    end if
    n=n+1
end for
print result
```

 16 14

CORRECT

 15 17**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No:** 11**Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer array[] = {0 2 4 6 7 5 3}
```

```
.....  
Integer n, result = 0  
for (n : 0 to 7)  
    if n MOD 2 EQUALS 1  
        result += array[n]  
    end if  
end for  
print result
```

15

14

17

13

CORRECT

Status: Wrong

Mark obtained: 0/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: MCQ

Subject: C Programming - Array

Subject: Arrays

Show solution

Question No: 12

Multi Choice Type Question

Which of the following concepts make extensive use of arrays?

Caching

Binary trees

Scheduling of processes

Spatial locality

CORRECT

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: MCQ

Subject: C Programming

**Subject:** Control statements Show solution**Question No: 13****Multi Choice Type Question**

What will be the output of the following psuedo code?

Integer arr[5][5],i,j

```
for i: 0 to 4
    for j: 0 ot 4
        if i+j EQUALS 4
            print arr[i][j]
        endif
        j=j+1
    end for
    i=i+1
end for
```

 Transpose of a matrix print left diagonal print right diagonal      CORRECT print both diagonal**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No: 14****Multi Choice Type Question**

What will be the output of the following psuedo code?

Integer arr[] = {4, 5, 6, 7}

Integer \*p = (arr + 1)

```
print *p  
return 0
```

 4 6 5

CORRECT

 7**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No: 15****Multi Choice Type Question**

What is the output of following program x=30?

```
void fun(Integer x)  
Integer y = 20  
print( y)  
return 0
```

 15 17 30 20

CORRECT

**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Medium

**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming**Subject:** Functions Show solution**Question No: 16****Multi Choice Type Question**

What will be the output of the following psuedo code?

```

Integer arr[5][5],i,j
for i: 0 to 4
    for j: 0 ot 4
        print arr[i][j]
    end for
end for

```

 Prints a Multidimensional array CORRECT print transpose of matrix print left diagonal print left diagonal**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No: 17****Multi Choice Type Question**

What will be the output of the following psuedo code?

```

Integer array[] = {10, 20, 30}
print -2[array]
return 0

```

-30

CORRECT

 -12 garbage value -15**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution**Question No: 18****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer arr[] = {4, 5, 6, 7}  
Integer *p = (arr + 1)  
print *arr + 9
```

 5 13

CORRECT

 90 12**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** MCQ**Subject:** C Programming - Array**Subject:** Arrays Show solution

**Question No: 19****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer a = 5, b = 10, c = 15  
print(a+b)  
print(c<<3)
```

 15 30 some random number 15 120 CORRECT 10 20

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Medium

Question type: MCQ Single Correct    Subject: MCQ      Subject: C Programming - Array

Subject: Arrays

 Show solution**Question No: 20****Multi Choice Type Question**

What will be the output of the following psuedo code?

```
Integer arr[3]={6,9,12}  
Integer x,y  
if(a[0] mod 2 equals 0)  
x=a[1]<<1  
y=a[2]>>1  
end if  
print x,y
```

 16 12 18 6 CORRECT

 9 6**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** MCQ      **Subject:** C Programming - Array**Subject:** Arrays

First      1      2      Last

1. In an empty BST , insert the following elements in a similar sequence. Which element will be at the lowest level.

105, 95,122,99,97,120

a). 95 b).**97** c). 99 d). 120

2. Consider a Two dimentional Square matrix A, consisting of 5 rows and 5 columns. The elements of A are given by formula.

$A[K][J]=i$ , If  $K>J$

$A[K][j]=i$ , if  $k < j$

$A[k][j]=0$ , if  $k=j$ (assume 0 based indexing)

Calculate the sum of elements of A

a). 60 b) 32 c) 28 d)**None**

3. Find out the correct inorder traversal sequence of BST

1. 15,19,22,26,29, 35
2. 15,18,20,22,28,26,32
3. 14,17,19,21,26,31,33

**Ans:Both 3 and 1**

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

```
Integer a,b,c  
Set D=6  
For each(a from 1 to 2)  
  For each( b from a to 2)  
    For each (c from b to 2)  
      Print d  
    End for  
  End for  
End for  
a). 666666 b). 66 c). 666 d).6666
```

5. Integer fun (Integer a)

```
if( a EQUAL 0)  
  return[a +9]  
else  
  Return fun (a-1)  
End function Fun()  
a). 6 b) 0 c).9 d) 1  
Ans:
```

6. Identify the effects of using stack in recursion

1. It is comparatively slower than iteration
2. It uses more memory than iteration

Choose the correct answer from the option given below

- a) Only 2 b) both 1 & 2 c). Neither 1 nor 2 d). Only 1

7. Consider an array A with n elements. The following operations are performed on array A

- Right Shift
- Right rotation
- Left shift
- Left rotation
- Right rotation
- Left shift
- Right rotation

What is the number of elements present in A after the above operations are performed.

- a). N b). N-4 c). N-3 d). N+3

8. For which of the following values of 'a', the statement under will execute

Integer a

If (a mod 10 > 5 or a mod 10 equals 3 AND a/100 equals 1)

Print a mod 10 +a/100

Else

Print a

End if

- A ). 123 b) 555 c)111 d) 121

9. What will be the output of the following pseudo code?

Integer a,b,c

Set a =108, b=2 c=3

If((a mod 9) equals 0)

B=b+(a mod 2)

Print b

Else

C=c+(a mod 7)

Print c

End if

- a). 2 b). 7 c) 1 d). 3

10. What will be the output for a =70?

Integer a, i

If(a>=75)

Print "easy"

Else if(a>=65 AND a<75)

Print " moderate"

Else if(a>=55 or a<65)

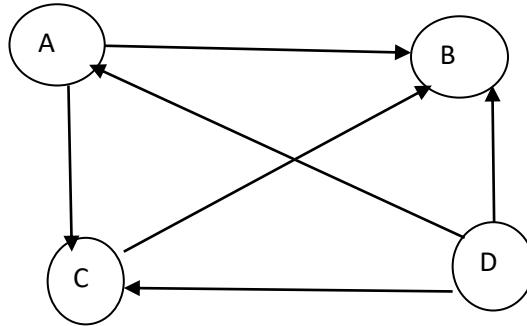
Print " difficult"

```

Else
Print "very difficult"
End if
Ans:moderate

```

11. Which of the following is the correct topological ordering of the given graph  
 1). DACB 2). DABD 3). DCAB 4). No topological ordering



- a) 1 and 3 b) only 1 c) only 4 d). Only 2

12. Consider the following algorithms.

```

Integer fun(Node *p)
Integer X= MIN_INT
While (p not equals NULL)
If(p-> data<x)
Return 0
Else
X=p->data
P=p->next
End if
End loop
Return 1
End fun

```

P is a pointer to the first node of the linked list. This of the following operations is performed by the function fun

- a). Function fun detects a loop in the linked list. It returns 1 when a loop is found and 0 when no loop is found
- b). None of the above
- c). Function fun finds the largest elements of the linked list.
- d). Function fun checks whether a link list is sorted or not. It returns 0 when the list is not sorted and 1 when it is sorted

13. What will be the output of the following pseudo code?

```

Integer fun (Integer a)
if( a > 0)
return fun(a-1)

```

```

        else
    Return a+10
End if
End function Fun()
a). 9 b). 0 c)10 d) 7

```

14. Which of the following statements is/are true for the shortest path and minimum spanning for unweighted graph?
- 1). The shortest path is the path with least number of edges
  - 2). Any spanning tree is minimum spanning tree
  3. Only breadth first traversal can be used for finding a spanning tree and not depth first traversal.
- a). Only 1 and 3 b). Only 1 and 2 c). All 1,2,3 d) only 2 & 3
15. Consider a binary search tree T which is registered using array as  
7,-2,36,-11,\_18,\_  
Which of the following statements is correct about T.
16. Consider a BST containing two nodes 20 & 30. It si given that 30 is the root node...  
AVL rotation is best suited to make the tree balance?  
a) LL b) LR c) RR d) RL
17. To provide an additional assurance that the data are memory ....  
1). TCP checksum 2) ECC memory 3) MDS checksum  
a) only 1 and 2 b) only 2 & 3 c) all 1,2,3 d) only 3
18. Which of the following data structure the relation ship of adjacency is not maintained between the data items.  
a). Linked list b). Queue c). Stack d). Decision tree
19. With the help of the following information find out the sum of the degrees of vertices  
Number of vertices = $x_1$   
Number of edges = $x_2$   
a)  $2x_2$  b)  $2x_2$  c).  $X_1 - x_2$  d).  $X_1x_2$
20. Consider a two dimensional square matrix , A Consisting of 100 rows and 100 cloumns. The elements of A are given by the formual.  
 $A[K][J]=1$ , if  $K=j$   
 $A[k][j]=0$ , other wsie  
Which of the following statements are correct about A?  
a). A is a sparse and diagonal matrix  
b). A is diagonal matrix  
c). A is a dence matrix  
d) A is a sparse matrix
21. Linked list are considered as which type of data structure based on:  
1. Storage

2. Access strategise
- Liner, Non linear
  - Non linear, linear
  - Linear, linear
  - Non linear , non linear
22. When a function makes a nested call, Which of the following will happen.
- The current function runs in parallel
  - After it ends, the old execution contents is retrieved from the stack
  - The execution context associated with the current function is remembered in a special data structure called execution context.
- Choose the correct answer from the option given below:
- Only 1 and 2
  - only 1 and 3
  - all 1,2,3
  - Only 2 ,3
23. For which of the following applications can you use hashing
- To construct a message authentication code
  - For Timestamping
  - For detecting cycle in a graph
- Only 1 and 2
  - Only 1
  - only 1 and 3
  - only 2 and 3
- ```
Integer a  
String str1  
Set str1="goose"  
A= stringlength(str1)  
Print(a^1)
```
- 0
  - 3
  - 4
  - 5
24. What will be the output of the following pseudocode?
- ```
Integer a,b,c  
Set b=40, a=20, c=20  
If(c>(c+a))  
B=0  
Else  
A=a+2  
C=a+2  
End if  
If(c>((b+a)))  
B=0  
Else  
A= a+2  
C=a+2  
End if  
Print a+b+c
```
- 60
  - 30
  - 90
  - 39
25. Which of the following statements is/are correct for a B-tree of order M?
- The root has at least two subtrees unless it is the only node in the tree
  - All leaves are on different level.
  - Each non root have at least  $m/2$  non empty children
26. Choose the correct answer from the option given below.
- Only 3
  - Only 1
  - Only 2
  - Only 1 & 3

27. Integer a,b,c

Set b=10, a=1

If(0)

A=a-1

Else

A=b+1

B=a-1

A=a-1

End if

Print a

3 b) 5 c) 10 d)11

# Result & Analysis

Student: Abinaya Murugesan ... Test: CAP - 21 - Test 06

Course: Capgemini | 21 | Prep...

## Attempt 1

IP Address: 2409:4072:e8e:c8a8:cd91:680a:4b4d:103b

Tab switches: 1

OS used: Windows

Browser used: Chrome

Test Duration: 00:49:54

Test Start Time: Oct 26, 2020 | 09:34 AM

Test Submit Time: Oct 26, 2020 | 10:25 AM

### Overall score



Rank: NA

Topper score: 49.00 / 55

Average score: 27.30 / 55

Least score: 0.00 / 55

### Pseudocode



Rank: NA

Topper score: 23.00 / 25

Average score: 14.16

Least score: 3.00

### Verbal Ability



Rank: NA

Topper score: 27.00 / 30

Average score: 13.87

Least score: 0.00

### Overall Question Status



Total Questions: 55

Questions Attempted: 55

Questions Correct: 44

Question Wrong: 11

Partially Correct: 0

### Pseudocode - Question Status



Total Questions: 25

Questions Attempted: 25

Questions Correct: 17

Question Wrong: 8

Partially Correct: 0

### Verbal Ability - Question Status

A circular progress bar with a teal border and a light gray inner ring. The number '30' is displayed in the center, with a teal arc indicating 100% completion.

Total Questions: 30



Questions Attempted: 30  
 Questions Correct: 27  
 Question Wrong: 3  
 Partially Correct: 0

[Topic wise Analysis](#)[Pseudocode](#)[Verbal Ability](#)**Question No: 1****Multi Choice Type Question****Look into the statement and change the voice.****Mr. Sharma knows me.**

- I am known at Mr. Sharma.
- I am known with Mr. Sharma.
- I am known for Mr. Sharma.
- I am known to Mr. Sharma.      CORRECT

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Medium

Question type: MCQ Single Correct    Subject: Aptitude      Subject: Verbal Ability

Subject: Voices

- Show solution

**Question No: 2****Multi Choice Type Question****Change the following into indirect speech.**

The teacher said to Ram, "Congratulations! Wish you success in life".

- The teacher wished congratulations and success in life to Ram.

~~The teacher wished congratulations to~~

~~The teacher wished congratulations to~~

Ram and wished him success in life.

The teacher congratulated Ram and said

wish you success in life.

The teacher congratulated Ram CORRECT  
and wished him success in life.

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium

**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Speeches

Show solution

### Question No: 3

### Multi Choice Type Question

Replace the underlined part of the sentence with the best possible option

Denouncing it as anti-democratic,the Lobbying Act was slammed by critics, imposing draconian limits on the activities of trade unions.

the Lobbying Act, which imposes

draconian limits on the activities of trade unions, was slammed by critics.

critics slammed the Lobbying Act,

imposing draconian limits on the activities of trade unions.

critics slammed the Lobbying

Act, which imposes draconian limits on the activities of trade unions. CORRECT

No correction required

**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Hard

**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Sentence Correction

### Question No: 4

### Multi Choice Type Question

Their plans to travel to Greece are still\_\_\_\_\_

under considered

unidentified

up in the air

CORRECT

confirmed

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Hard

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Sentence completion

Show solution

Question No: 5

Multi Choice Type Question

**Identify which part of the sentence is incorrect**

She is loving(a)/ her only (b)/ daughter(c)/ no error(d)

a

CORRECT

c

d

b

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Tenses

Show solution**Question No: 6****Multi Choice Type Question****Select the option that is mostly opposite to the given word.****PETTY(OPPOSITE)** Magnanimous      CORRECT Liberal Not sure Moderate Light**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Antonyms Show solution**Question No: 7****Multi Choice Type Question****Arrange the below sentences in a logical order:**

- 1). A good budget is one which makes a sincere attempt to change the policy environment.
- 2). Government finances are terminally impaired with uncontrolled fiscal deficits.
- 3). There are big gaps in perception and capability of managers.
- 4). Industry too is not ready to deliver growth, should even the government pursue the right policies.
- 5). The current reforms pace is too slow.
- 6). The fiscal deficit has deteriorated.

 143256 214356

654321

CORRECT

 512346**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Para Jumbles**Question No: 8****Multi Choice Type Question****Arrange the below sentences in logical order:**

- 1). If you are used to having your stimulation come in from outside, your mind never develops its own habits of thinking and reflecting
- 2). Marx thought that religion was the opiate, because it soothed people's pain and suffering and prevented them from rising in rebellion
- 3). If Karl Marx was alive today, he would say that television is the opiate of the people.
- 4). Television and similar entertainments are even more of an opiate because of their addictive tendencies.

 1432 2134 3241

CORRECT

 2431**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Para Jumbles**Question No: 9****Multi Choice Type Question**

Select the word or phrase which best expresses the meaning of the given word.

## PREAMBLE

Rules

Law

Introduction

CORRECT

Rights

Not sure

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Synonyms

Show solution

Question No: 10

Multi Choice Type Question

**(Make necessary changes if the sentence requires.)**

Rina is tired as she is working since 5 O'clock in the morning.

Rina is tired as she was working since 5 O'clock in the morning.

Rina is tired as she has been working since 5 O'clock in the morning.      CORRECT

Rina is tired as she had been working since 5 O'clock in the morning.

Rina is tired as she will be working since 5 O'clock in the morning.

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Sentence Correction

Show solution

Question No: 11

Multi Choice Type Question

**Look into the statement and change the voice.**

His behaviour surprised me.

I was surprised for his behaviour.

I was surprised on his behaviour.

I was surprised at his behaviour. CORRECT

I was surprised with his behaviour.

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Easy

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Voices

Show solution

Question No: 12

Multi Choice Type Question

I earn rupees ten thousand \_\_\_\_ month.

A      CORRECT

An

No article

The

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Articles Show solution**Question No:** 13**Multi Choice Type Question****pinnacle:** Sheena had reached the pinnacle in her career steady state downfall transitory state summit

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Vocabulary**Question No:** 14**Multi Choice Type Question****Arrange the below sentences in logical order:**

- 1). Despite posting healthy profits, Volkswagen shares trade at a discount to peers due to bad reputation among investors.
- 2). A disastrous capital hike, an expensive foray into truck business and uncertainty about the reason for a share buyback have in recent years left investors bewildered.
- 3). The main problem with Volkswagen is the past.
- 4). Many investors have been disappointed and frightened away.
- 5). Volkswagen shares trade at about nine times the 2002 estimated earnings, compared to BMW's 19 and are the second cheapest in the sector.

 52134

13524 13425

CORRECT

 32451**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Para Jumbles**Question No:** 15**Multi Choice Type Question****(Make necessary changes if the sentence requires.)**

Jeans were not permitted in the college.

 Jeans was not permitted in the college. No error

CORRECT

 Jeans has not permitted in the college. Jeans have not permitted in the college.**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Sentence Correction Show solution**Question No:** 16**Multi Choice Type Question**

The majority of successful senior managers do not closely follow the classical rational model of first clarifying goals, assessing the problem, formulating options, estimating likelihoods of success, making a decision, and only then taking action to implement the decision. Rather, in their day-by-day tactical maneuvers, these senior executives rely on what is vaguely termed "intuition" to manage a network of interrelated problems that require them to deal with ambiguity, inconsistency, novelty, and surprise, and to integrate action into the process to

ambiguity, inconsistency, novelty, and surprise, and to integrate action into the process to thinking. Generations of writers on management have recognized that some practicing managers rely heavily on intuition. In general, however, such writers display a poor grasp of what intuition is. Some see it as the opposite of rationality; others view it as an excuse for capriciousness. Isenberg's recent research on the cognitive processes of senior managers reveals that managers' intuition is neither of these. Rather, senior managers use intuition in at least five distinct ways. First, they intuitively sense when a problem exists. Second, managers rely on intuition to perform well-learned behavior patterns rapidly. This intuition is not arbitrary or irrational, but is based on years of painstaking practice and hands-on experience that build skills. A third function of intuition is to synthesize isolated bits of data and practice into an integrated picture, often in an "Aha!" experience. Fourth, some managers use intuition as a check on the results of more rational analysis. Most senior executives are familiar with the formal decision analysis models and tools, and those who use such systematic methods for reaching decisions are occasionally leery of solutions suggested by these methods which run counter to their sense of the correct course of action. Finally, managers can use intuition to bypass in-depth analysis and move rapidly to engender a plausible solution. Used in this way, intuition is an almost instantaneous cognitive process in which a manager recognizes familiar patterns. One of the implications of the intuitive style of executive management is that "thinking" is inseparable from acting. Since managers often "know" what is right before they can analyze and explain it, they frequently act first and explain later. Analysis is inextricably tied to action in thinking/acting cycles, in which managers develop thoughts about their companies and organizations not by analyzing a problematic situation and then acting, but by acting and analyzing in close concert. Given the great uncertainty of many of the management issues that they face, senior managers often instigate a course of action simply to learn more about an issue. They then use the results of the action to develop a more complete understanding of the issue. One implication of thinking/acting cycles is that action is often part of defining the problem, not just of implementing the solution.

**According to the passage, the classical model of decision analysis includes all of the following EXCEPT**

- Establishment of clear goals to be reached by the decision.
- Creation of possible solutions to a problem.
- Action undertaken in order to
  - discover more information
  - CORRECT
  - about a problem.
- Evaluation of a problem.

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Reading Comprehension

Question No: 17

Multi Choice Type Question

**Find the option which better expresses the opposite meaning of the given word.**

STARTLED

- Relaxed      CORRECT
- Amused
- Endless
- Astonished

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Antonyms

Question No: 18

Multi Choice Type Question

**Identify which part of the sentence is incorrect**

Two days ago (a)/ she has come(b)/ back to her hostel(c)/no error(d)

- d
- b      CORRECT
- a

C**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Tenses Show solution**Question No:** 19**Multi Choice Type Question****Change the following into indirect speech.**

David said to Anna, "Mona will leave to her mother the next week".

 David told Anna that Mona will leave for  
her native place tomorrow. David told Anna that Mona  
would leave for her native place CORRECT  
the next day. David told Anna that Mona would be  
leaving for her native place tomorrow. David told Anna that Mona left for her  
native place the next day.**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Speeches Show solution**Question No:** 20**Multi Choice Type Question**

\_\_\_\_\_ pollution control measures are expensive, many industries hesitate to adopt them.

 However because

CORRECT

Despite Although

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Easy

**Question type:** MCQ Single Correct **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Sentence Correction

First      1      2      Last

# Result & Analysis

Student: Abinaya Murugesan ... Test: CAP - 21 - Test 06

Course: Capgemini | 21 | Prep...

## Attempt 1

IP Address: 2409:4072:e8e:c8a8:cd91:680a:4b4d:103b

Tab switches: 1

OS used: Windows

Browser used: Chrome

Test Duration: 00:49:54

Test Start Time: Oct 26, 2020 | 09:34 AM

Test Submit Time: Oct 26, 2020 | 10:25 AM

### Overall score



Rank: NA

Topper score: 49.00 / 55

Average score: 28.07 / 55

Least score: 2.00 / 55

### Pseudocode



Rank: NA

Topper score: 23.00 / 25

Average score: 13.93

Least score: 2.00

### Verbal Ability



Rank: NA

Topper score: 29.00 / 30

Average score: 14.14

Least score: 0.00

### Overall Question Status



Total Questions: 55

Questions Attempted: 55

Questions Correct: 44

Question Wrong: 11

Partially Correct: 0

### Pseudocode - Question Status



Total Questions: 25

Questions Attempted: 25

Questions Correct: 17

Question Wrong: 8

Partially Correct: 0

### Verbal Ability - Question Status

A circular progress bar with a teal border and a light gray inner ring. The number '30' is displayed in the center, with '/ 30' written below it.

Total Questions: 30



Questions Attempted: 30  
 Questions Correct: 27  
 Question Wrong: 3  
 Partially Correct: 0

[Topic wise Analysis](#)[Pseudocode](#)[Verbal Ability](#)**Question No: 1****Multi Choice Type Question****Look into the statement and change the voice.****Mr. Sharma knows me.**

- I am known at Mr. Sharma.
- I am known with Mr. Sharma.
- I am known for Mr. Sharma.
- I am known to Mr. Sharma.      CORRECT

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Medium

Question type: MCQ Single Correct    Subject: Aptitude      Subject: Verbal Ability

Subject: Voices

- Show solution

**Question No: 2****Multi Choice Type Question****Change the following into indirect speech.**

The teacher said to Ram, "Congratulations! Wish you success in life".

- The teacher wished congratulations and success in life to Ram.

~~The teacher wished congratulations to~~

~~The teacher wished congratulations to~~

Ram and wished him success in life.

The teacher congratulated Ram and said

wish you success in life.

The teacher congratulated Ram CORRECT  
and wished him success in life.

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium

**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Speeches

Show solution

### Question No: 3

### Multi Choice Type Question

Replace the underlined part of the sentence with the best possible option

Denouncing it as anti-democratic,the Lobbying Act was slammed by critics, imposing draconian limits on the activities of trade unions.

the Lobbying Act, which imposes

draconian limits on the activities of trade unions, was slammed by critics.

critics slammed the Lobbying Act,

imposing draconian limits on the activities of trade unions.

critics slammed the Lobbying

Act, which imposes draconian limits on the activities of trade unions. CORRECT

No correction required

**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Hard

**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Sentence Correction

### Question No: 4

### Multi Choice Type Question

Their plans to travel to Greece are still\_\_\_\_\_

under considered

unidentified

up in the air

CORRECT

confirmed

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Hard

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Sentence completion

Show solution

Question No: 5

Multi Choice Type Question

**Identify which part of the sentence is incorrect**

She is loving(a)/ her only (b)/ daughter(c)/ no error(d)

a

CORRECT

c

d

b

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Tenses

Show solution**Question No: 6****Multi Choice Type Question****Select the option that is mostly opposite to the given word.****PETTY(OPPOSITE)** Magnanimous      CORRECT Liberal Not sure Moderate Light**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Antonyms Show solution**Question No: 7****Multi Choice Type Question****Arrange the below sentences in a logical order:**

- 1). A good budget is one which makes a sincere attempt to change the policy environment.
- 2). Government finances are terminally impaired with uncontrolled fiscal deficits.
- 3). There are big gaps in perception and capability of managers.
- 4). Industry too is not ready to deliver growth, should even the government pursue the right policies.
- 5). The current reforms pace is too slow.
- 6). The fiscal deficit has deteriorated.

 143256 214356

654321

CORRECT

 512346**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Para Jumbles**Question No: 8****Multi Choice Type Question****Arrange the below sentences in logical order:**

- 1). If you are used to having your stimulation come in from outside, your mind never develops its own habits of thinking and reflecting
- 2). Marx thought that religion was the opiate, because it soothed people's pain and suffering and prevented them from rising in rebellion
- 3). If Karl Marx was alive today, he would say that television is the opiate of the people.
- 4). Television and similar entertainments are even more of an opiate because of their addictive tendencies.

 1432 2134 3241

CORRECT

 2431**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Para Jumbles**Question No: 9****Multi Choice Type Question**

Select the word or phrase which best expresses the meaning of the given word.

## PREAMBLE

Rules

Law

Introduction

CORRECT

Rights

Not sure

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Synonyms

Show solution

Question No: 10

Multi Choice Type Question

**(Make necessary changes if the sentence requires.)**

Rina is tired as she is working since 5 O'clock in the morning.

Rina is tired as she was working since 5 O'clock in the morning.

Rina is tired as she has been working since 5 O'clock in the morning.      CORRECT

Rina is tired as she had been working since 5 O'clock in the morning.

Rina is tired as she will be working since 5 O'clock in the morning.

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability

## **Subject:** Sentence Correction

Show solution

## Question No: 11

## Multi Choice Type Question

**Look into the statement and change the voice.**

His behaviour surprised me.

I was surprised for his behaviour.

I was surprised on his behaviour.

I was surprised at his behaviour. CORRECT

I was surprised with his behaviour.

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Easy

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

## **Subject: Voices**

Show solution

## **Question No: 12**

## **Multi Choice Type Question**

I earn rupees ten thousand \_\_\_\_ month.

A CORRECT

An

No article

The

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Articles Show solution**Question No:** 13**Multi Choice Type Question****pinnacle:** Sheena had reached the pinnacle in her career steady state downfall transitory state summit

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Vocabulary**Question No:** 14**Multi Choice Type Question****Arrange the below sentences in logical order:**

- 1). Despite posting healthy profits, Volkswagen shares trade at a discount to peers due to bad reputation among investors.
- 2). A disastrous capital hike, an expensive foray into truck business and uncertainty about the reason for a share buyback have in recent years left investors bewildered.
- 3). The main problem with Volkswagen is the past.
- 4). Many investors have been disappointed and frightened away.
- 5). Volkswagen shares trade at about nine times the 2002 estimated earnings, compared to BMW's 19 and are the second cheapest in the sector.

 52134

13524 13425

CORRECT

 32451**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude    **Subject:** Verbal Ability**Subject:** Para Jumbles**Question No:** 15**Multi Choice Type Question****(Make necessary changes if the sentence requires.)**

Jeans were not permitted in the college.

 Jeans was not permitted in the college. No error

CORRECT

 Jeans has not permitted in the college. Jeans have not permitted in the college.**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude    **Subject:** Verbal Ability**Subject:** Sentence Correction Show solution**Question No:** 16**Multi Choice Type Question**

The majority of successful senior managers do not closely follow the classical rational model of first clarifying goals, assessing the problem, formulating options, estimating likelihoods of success, making a decision, and only then taking action to implement the decision. Rather, in their day-by-day tactical maneuvers, these senior executives rely on what is vaguely termed "intuition" to manage a network of interrelated problems that require them to deal with ambiguity, inconsistency, novelty, and surprise, and to integrate action into the process to

ambiguity, inconsistency, novelty, and surprise, and to integrate action into the process to thinking. Generations of writers on management have recognized that some practicing managers rely heavily on intuition. In general, however, such writers display a poor grasp of what intuition is. Some see it as the opposite of rationality; others view it as an excuse for capriciousness. Isenberg's recent research on the cognitive processes of senior managers reveals that managers' intuition is neither of these. Rather, senior managers use intuition in at least five distinct ways. First, they intuitively sense when a problem exists. Second, managers rely on intuition to perform well-learned behavior patterns rapidly. This intuition is not arbitrary or irrational, but is based on years of painstaking practice and hands-on experience that build skills. A third function of intuition is to synthesize isolated bits of data and practice into an integrated picture, often in an "Aha!" experience. Fourth, some managers use intuition as a check on the results of more rational analysis. Most senior executives are familiar with the formal decision analysis models and tools, and those who use such systematic methods for reaching decisions are occasionally leery of solutions suggested by these methods which run counter to their sense of the correct course of action. Finally, managers can use intuition to bypass in-depth analysis and move rapidly to engender a plausible solution. Used in this way, intuition is an almost instantaneous cognitive process in which a manager recognizes familiar patterns. One of the implications of the intuitive style of executive management is that "thinking" is inseparable from acting. Since managers often "know" what is right before they can analyze and explain it, they frequently act first and explain later. Analysis is inextricably tied to action in thinking/acting cycles, in which managers develop thoughts about their companies and organizations not by analyzing a problematic situation and then acting, but by acting and analyzing in close concert. Given the great uncertainty of many of the management issues that they face, senior managers often instigate a course of action simply to learn more about an issue. They then use the results of the action to develop a more complete understanding of the issue. One implication of thinking/acting cycles is that action is often part of defining the problem, not just of implementing the solution.

**According to the passage, the classical model of decision analysis includes all of the following EXCEPT**

- Establishment of clear goals to be reached by the decision.
- Creation of possible solutions to a problem.
- Action undertaken in order to
  - discover more information
  - CORRECT
  - about a problem.
- Evaluation of a problem.

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Reading Comprehension

Question No: 17

Multi Choice Type Question

**Find the option which better expresses the opposite meaning of the given word.**

STARTLED

- Relaxed      CORRECT
- Amused
- Endless
- Astonished

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Antonyms

Question No: 18

Multi Choice Type Question

**Identify which part of the sentence is incorrect**

Two days ago (a)/ she has come(b)/ back to her hostel(c)/no error(d)

- d
- b      CORRECT
- a

C**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Tenses Show solution**Question No:** 19**Multi Choice Type Question****Change the following into indirect speech.**

David said to Anna, "Monna will leave to her mother the next week".

 David told Anna that Mona will leave for  
her native place tomorrow. David told Anna that Mona  
would leave for her native place CORRECT  
the next day. David told Anna that Mona would be  
leaving for her native place tomorrow. David told Anna that Mona left for her  
native place the next day.**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Speeches Show solution**Question No:** 20**Multi Choice Type Question**

\_\_\_\_\_ pollution control measures are expensive, many industries hesitate to adopt them.

 However because

CORRECT

Despite Although

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Easy

**Question type:** MCQ Single Correct **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Sentence Correction

First      1      2      Last

# Result & Analysis

Student: Abinaya Murugesan ... Test: CAP - 21 - Test 06

Course: Capgemini | 21 | Prep...

## Attempt 1

IP Address: 2409:4072:e8e:c8a8:cd91:680a:4b4d:103b

Tab switches: 1

OS used: Windows

Browser used: Chrome

Test Duration: 00:49:54

Test Start Time: Oct 26, 2020 | 09:34 AM

Test Submit Time: Oct 26, 2020 | 10:25 AM

### Overall score



Rank: NA

Topper score: 49.00 / 55

Average score: 27.07 / 55

Least score: 0.00 / 55

### Pseudocode



Rank: NA

Topper score: 23.00 / 25

Average score: 14.16

Least score: 3.00

### Verbal Ability



Rank: NA

Topper score: 27.00 / 30

Average score: 13.87

Least score: 0.00

### Overall Question Status



Total Questions: 55

Questions Attempted: 55

Questions Correct: 44

Question Wrong: 11

Partially Correct: 0

### Pseudocode - Question Status



Total Questions: 25

Questions Attempted: 25

Questions Correct: 17

Question Wrong: 8

Partially Correct: 0

### Verbal Ability - Question Status

A circular progress bar with a teal border and a light gray background. The number '30' is displayed in the center, with '/ 30' written below it.

Total Questions: 30



Questions Attempted: 30  
 Questions Correct: 27  
 Question Wrong: 3  
 Partially Correct: 0

[Topic wise Analysis](#)[Pseudocode](#)[Verbal Ability](#)**Question No: 1****Multi Choice Type Question****Look into the statement and change the voice.****Mr. Sharma knows me.**

- I am known at Mr. Sharma.
- I am known with Mr. Sharma.
- I am known for Mr. Sharma.
- I am known to Mr. Sharma.      CORRECT

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Medium

Question type: MCQ Single Correct    Subject: Aptitude      Subject: Verbal Ability

Subject: Voices

- Show solution

**Question No: 2****Multi Choice Type Question****Change the following into indirect speech.**

The teacher said to Ram, "Congratulations! Wish you success in life".

- The teacher wished congratulations and success in life to Ram.

~~The teacher wished congratulations to~~

~~The teacher wished congratulations to~~

Ram and wished him success in life.

The teacher congratulated Ram and said

wish you success in life.

The teacher congratulated Ram CORRECT  
and wished him success in life.

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium

**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Speeches

Show solution

### Question No: 3

### Multi Choice Type Question

Replace the underlined part of the sentence with the best possible option

Denouncing it as anti-democratic,the Lobbying Act was slammed by critics, imposing draconian limits on the activities of trade unions.

the Lobbying Act, which imposes

draconian limits on the activities of trade unions, was slammed by critics.

critics slammed the Lobbying Act,

imposing draconian limits on the activities of trade unions.

critics slammed the Lobbying

Act, which imposes draconian limits on the activities of trade unions. CORRECT

No correction required

**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Hard

**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Sentence Correction

### Question No: 4

### Multi Choice Type Question

Their plans to travel to Greece are still\_\_\_\_\_

under considered

unidentified

up in the air

CORRECT

confirmed

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Hard

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Sentence completion

Show solution

Question No: 5

Multi Choice Type Question

**Identify which part of the sentence is incorrect**

She is loving(a)/ her only (b)/ daughter(c)/ no error(d)

a

CORRECT

c

d

b

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Tenses

Show solution**Question No: 6****Multi Choice Type Question****Select the option that is mostly opposite to the given word.****PETTY(OPPOSITE)** Magnanimous      CORRECT Liberal Not sure Moderate Light**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Antonyms Show solution**Question No: 7****Multi Choice Type Question****Arrange the below sentences in a logical order:**

- 1). A good budget is one which makes a sincere attempt to change the policy environment.
- 2). Government finances are terminally impaired with uncontrolled fiscal deficits.
- 3). There are big gaps in perception and capability of managers.
- 4). Industry too is not ready to deliver growth, should even the government pursue the right policies.
- 5). The current reforms pace is too slow.
- 6). The fiscal deficit has deteriorated.

 143256 214356

654321

CORRECT

 512346**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Para Jumbles**Question No: 8****Multi Choice Type Question****Arrange the below sentences in logical order:**

- 1). If you are used to having your stimulation come in from outside, your mind never develops its own habits of thinking and reflecting
- 2). Marx thought that religion was the opiate, because it soothed people's pain and suffering and prevented them from rising in rebellion
- 3). If Karl Marx was alive today, he would say that television is the opiate of the people.
- 4). Television and similar entertainments are even more of an opiate because of their addictive tendencies.

 1432 2134 3241

CORRECT

 2431**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Para Jumbles**Question No: 9****Multi Choice Type Question**

Select the word or phrase which best expresses the meaning of the given word.

## PREAMBLE

Rules

Law

Introduction

CORRECT

Rights

Not sure

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Synonyms

Show solution

Question No: 10

Multi Choice Type Question

**(Make necessary changes if the sentence requires.)**

Rina is tired as she is working since 5 O'clock in the morning.

Rina is tired as she was working since 5 O'clock in the morning.

Rina is tired as she has been working since 5 O'clock in the morning.      CORRECT

Rina is tired as she had been working since 5 O'clock in the morning.

Rina is tired as she will be working since 5 O'clock in the morning.

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Sentence Correction

Show solution

Question No: 11

Multi Choice Type Question

**Look into the statement and change the voice.**

His behaviour surprised me.

I was surprised for his behaviour.

I was surprised on his behaviour.

I was surprised at his behaviour. CORRECT

I was surprised with his behaviour.

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Easy

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Voices

Show solution

Question No: 12

Multi Choice Type Question

I earn rupees ten thousand \_\_\_\_ month.

A      CORRECT

An

No article

The

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Articles Show solution**Question No:** 13**Multi Choice Type Question****pinnacle:** Sheena had reached the pinnacle in her career steady state downfall transitory state summit

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Vocabulary**Question No:** 14**Multi Choice Type Question****Arrange the below sentences in logical order:**

- 1). Despite posting healthy profits, Volkswagen shares trade at a discount to peers due to bad reputation among investors.
- 2). A disastrous capital hike, an expensive foray into truck business and uncertainty about the reason for a share buyback have in recent years left investors bewildered.
- 3). The main problem with Volkswagen is the past.
- 4). Many investors have been disappointed and frightened away.
- 5). Volkswagen shares trade at about nine times the 2002 estimated earnings, compared to BMW's 19 and are the second cheapest in the sector.

 52134

13524 13425

CORRECT

 32451**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude    **Subject:** Verbal Ability**Subject:** Para Jumbles**Question No:** 15**Multi Choice Type Question****(Make necessary changes if the sentence requires.)**

Jeans were not permitted in the college.

 Jeans was not permitted in the college. No error

CORRECT

 Jeans has not permitted in the college. Jeans have not permitted in the college.**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude    **Subject:** Verbal Ability**Subject:** Sentence Correction Show solution**Question No:** 16**Multi Choice Type Question**

The majority of successful senior managers do not closely follow the classical rational model of first clarifying goals, assessing the problem, formulating options, estimating likelihoods of success, making a decision, and only then taking action to implement the decision. Rather, in their day-by-day tactical maneuvers, these senior executives rely on what is vaguely termed "intuition" to manage a network of interrelated problems that require them to deal with ambiguity, inconsistency, novelty, and surprise, and to integrate action into the process to

ambiguity, inconsistency, novelty, and surprise, and to integrate action into the process to thinking. Generations of writers on management have recognized that some practicing managers rely heavily on intuition. In general, however, such writers display a poor grasp of what intuition is. Some see it as the opposite of rationality; others view it as an excuse for capriciousness. Isenberg's recent research on the cognitive processes of senior managers reveals that managers' intuition is neither of these. Rather, senior managers use intuition in at least five distinct ways. First, they intuitively sense when a problem exists. Second, managers rely on intuition to perform well-learned behavior patterns rapidly. This intuition is not arbitrary or irrational, but is based on years of painstaking practice and hands-on experience that build skills. A third function of intuition is to synthesize isolated bits of data and practice into an integrated picture, often in an "Aha!" experience. Fourth, some managers use intuition as a check on the results of more rational analysis. Most senior executives are familiar with the formal decision analysis models and tools, and those who use such systematic methods for reaching decisions are occasionally leery of solutions suggested by these methods which run counter to their sense of the correct course of action. Finally, managers can use intuition to bypass in-depth analysis and move rapidly to engender a plausible solution. Used in this way, intuition is an almost instantaneous cognitive process in which a manager recognizes familiar patterns. One of the implications of the intuitive style of executive management is that "thinking" is inseparable from acting. Since managers often "know" what is right before they can analyze and explain it, they frequently act first and explain later. Analysis is inextricably tied to action in thinking/acting cycles, in which managers develop thoughts about their companies and organizations not by analyzing a problematic situation and then acting, but by acting and analyzing in close concert. Given the great uncertainty of many of the management issues that they face, senior managers often instigate a course of action simply to learn more about an issue. They then use the results of the action to develop a more complete understanding of the issue. One implication of thinking/acting cycles is that action is often part of defining the problem, not just of implementing the solution.

**According to the passage, the classical model of decision analysis includes all of the following EXCEPT**

- Establishment of clear goals to be reached by the decision.
- Creation of possible solutions to a problem.
- Action undertaken in order to
  - discover more information
  - CORRECT
  - about a problem.
- Evaluation of a problem.

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Reading Comprehension

Question No: 17

Multi Choice Type Question

**Find the option which better expresses the opposite meaning of the given word.**

STARTLED

- Relaxed      CORRECT
- Amused
- Endless
- Astonished

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Antonyms

Question No: 18

Multi Choice Type Question

**Identify which part of the sentence is incorrect**

Two days ago (a)/ she has come(b)/ back to her hostel(c)/no error(d)

- d
- b      CORRECT
- a

C**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Tenses Show solution**Question No:** 19**Multi Choice Type Question****Change the following into indirect speech.**

David said to Anna, "Mona will leave to her mother the next week".

 David told Anna that Mona will leave for  
her native place tomorrow. David told Anna that Mona  
would leave for her native place CORRECT  
the next day. David told Anna that Mona would be  
leaving for her native place tomorrow. David told Anna that Mona left for her  
native place the next day.**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Speeches Show solution**Question No:** 20**Multi Choice Type Question**

\_\_\_\_\_ pollution control measures are expensive, many industries hesitate to adopt them.

 However because

CORRECT

Despite Although

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Easy

**Question type:** MCQ Single Correct **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Sentence Correction

First      1      2      Last

# Result & Analysis

Student: Abinaya Murugesan ... Test: CAP - 21 - Test 02

Course: Capgemini | 21 | Prep...

## Attempt 1

IP Address: 2409:4072:800:fe46:b4c7:ff93:2fa5:b68e

Tab switches: 1

OS used: Windows

Browser used: Chrome

Test Duration: 00:48:31

Test Start Time: Oct 20, 2020 | 09:00 PM

Test Submit Time: Oct 20, 2020 | 09:50 PM

### Overall score



Rank: NA

Topper score: 48.00 / 50

Average score: 30.22 / 50

Least score: 0.00 / 50

### Pseudocode



Rank: NA

Topper score: 25.00 / 25

Average score: 15.89

Least score: 2.00

### Verbal Ability



Rank: NA

Topper score: 24.00 / 25

Average score: 14.54

Least score: 0.00

### Overall Question Status



Total Questions: 50

Questions Attempted: 50

Questions Correct: 40

Question Wrong: 10

Partially Correct: 0

### Pseudocode - Question Status



Total Questions: 25

Questions Attempted: 25

Questions Correct: 20

Question Wrong: 5

Partially Correct: 0

### Verbal Ability - Question Status

A circular progress bar with a teal border and a light gray inner ring. The number '25' is displayed in the center, with '/ 25' written below it.

Total Questions: 25



Questions Attempted: 25

Questions Correct: 20

Question Wrong: 5

Partially Correct: 0

Topic wise Analysis

Pseudocode

Verbal Ability



Question No: 1

Multi Choice Type Question

**(Make necessary changes if the sentence requires.)**

A team of scientists recovered the old files in 2020.

- the old files were recovered by a **CORRECT** team of scientists in 2020.
- in 2020 the old files was recovered by a team of scientists
- a team of biologists, in 2020, rediscovered the New Caledonia
- a team of scientists recovered the old files 2020

Status: Wrong      Mark obtained: 0/1      Hints used: 0      Level: Medium

Question type: MCQ Single Correct    Subject: Aptitude      Subject: Verbal Ability

Subject: Sentence Correction

- Show solution

Question No: 2

Multi Choice Type Question

He is not only a player \_\_\_\_\_ a very good student.

- and also

- but also

**CORRECT**

 further

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Easy

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Sentence Correction

## Question No: 3

## Multi Choice Type Question

Passengers must exit airplanes swiftly after accidents, since gases released following accidents are toxic to humans and often explode soon after being released. In order to prevent passenger deaths from gas inhalation, safety officials recommend that passengers be provided with smoke hoods that prevent inhalation of the gases.

**Which of the following, if true, constitutes the strongest reason not to require implementation of the safety officials' recommendation?**

Test evacuations showed that putting on the smoke hoods

- added considerably to the overall time it took passengers to leave the cabin.      CORRECT

Although the smoke hoods protect passengers from the toxic gases, they can do nothing to prevent the gases from igniting.

- In many airplane accidents, passengers who were able to reach emergency exits were overcome by toxic gases before they could exit the airplane.

- Some airlines are unwilling to buy the smoke hoods because they consider them to be prohibitively expensive.

- Some experienced flyers fail to pay attention to the safety instructions given on every commercial flight before take off.

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Hard**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Critical Reasoning**Question No: 4****Multi Choice Type Question**

He along with his family \_\_\_\_ going to attend the wedding.

 were will be is

CORRECT

 are**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Sentence Correction**Question No: 5****Multi Choice Type Question**

The dress Ariel wore \_\_\_\_\_ with small, glassy beads, creating a shimmering effect.

 enthralled scintillated

CORRECT

 striated titillated reiterated

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Medium

Question type: MCQ Single Correct    Subject: Aptitude      Subject: Verbal Ability

Subject: Sentence completion

Show solution

Question No: 6

Multi Choice Type Question

**Choose One Of The Correct Form Of The Words In The Brackets Of The Passages.**

Litigation (1) (is / are) not always the only or best way to resolve conflicts. Mediation(2) \_\_\_\_\_ (offers/ offer) an alternative approach and it (3) (is/ are) one that can be quite efficient and successful. Mediation can (4) (be/ have) faster, less expensive, and can lead to creative (5) (solutions/ solution) not always possible in a court of law. Additionally, mediation focuses on mutually acceptable solutions, rather than on winning or losing.

offer

offers

CORRECT

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Easy

Question type: MCQ Single Correct    Subject: Aptitude      Subject: Verbal Ability

Subject: Subject Verb Agreement

Question No: 7

Multi Choice Type Question

**Identify which part of the sentence is incorrect**

This room belongs(a)/ to me(b)/ since my birth(c)/no error(d)

b

a

CORRECT

d

c**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Easy**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Tenses Show solution**Question No:** 8**Multi Choice Type Question**

(Make necessary changes if the sentence requires.) The shopkeeper sold the yellow stole to the girl.

 The shopkeeper sold the stole to the yellow girl. The yellow shopkeeper sold the stole to the girl. The shopkeeper sold the yellow stole to the yellow girl. The shopkeeper sold the yellow stole to the girl.      CORRECT**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Easy**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Sentence Correction Show solution**Question No:** 9**Multi Choice Type Question**

**(Make necessary changes if the sentence requires.)**

Praveena ate a cold bowl of muesli for breakfast.

 Praveena ate a bowl of cold muesli for breakfast.      CORRECT Praveena ate a bowl of muesli for cold

breakfast.

Cold Praveena ate a muesli for breakfast.

Praveena ate a cold bowl of muesli for cold  
breakfast.

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Easy

**Question type:** MCQ Single Correct **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Sentence Correction

Show solution

**Question No:** 10

**Multi Choice Type Question**

The program to control the entry of illegal drugs into the country was a failure in 1987. If the program had been successful, the wholesale price of most illegal drugs would not have dropped substantially in 1987. The argument in the passage depends on which of the following assumptions?

A drop in demand for most illegal drugs in 1987 was not the sole cause of the drop in their wholesale price. CORRECT

The supply of illegal drugs dropped substantially in 1987.

The price paid for most illegal drugs by the average consumer did not drop substantially in 1987.

Domestic production of illegal drugs increased at a higher rate than did the entry of such drugs into the country.

The wholesale price of a few illegal drugs increased substantially in 1987.

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium

**Question type:** MCQ Single Correct **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Critical Reasoning**Question No: 11****Multi Choice Type Question****Select the word or phrase which best expresses the meaning of the given word.****CELLAR** Attic Loft Not Sure Roof Basement

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Synonyms Show solution**Question No: 12****Multi Choice Type Question**

Sebastian \_\_\_\_\_ at Carol's house a little before 9:00 pm, but she will not be there.

 has arrived will arrive

CORRECT

 arrives have arrived

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Hard**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Tenses Show solution**Question No: 13****Multi Choice Type Question****Choose the correct form of verb:**

The natives believe that noise, smoke, and dancing \_\_\_\_\_ away evil spirits.

 drives drive

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Subject Verb Agreement Show solution**Question No: 14****Multi Choice Type Question****Choose One Of The Correct Form Of The Words In The Brackets Of The Passages**

After fermentation, the beans(1) (is /are) dried, cleaned, and roasted. The shell (2) (is /are) removed to produce cacao nibs, which (3) (is /are) then ground to cocoa mass, unadulterated chocolate in rough form. Once the cocoa mass (4) (is /are) liquefied by heating, it (5)\_\_\_\_\_ (is /are) called chocolate liquor.

 are is

CORRECT

**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Subject Verb Agreement

Show solution

Question No: 15

Multi Choice Type Question

**(Make necessary changes if the sentence requires.)**

She wore the hat on her head, which she bought on last sunday.

- She bought a hat for last sunday to her head.
- She wore a hat on her head last sunday, which she bought.
- She last sunday bought a head for her hat and wore.
- She wore the hat which she bought yesterday, on her head. CORRECT

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Sentence Correction Show solution

Question No: 16

Multi Choice Type Question

**Choose the correct form of verb:**

None of the men \_\_\_\_\_ signed their contracts yet

- Has      CORRECT
- Have

**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Subject Verb Agreement

Show solution

## Question No: 17

## Multi Choice Type Question

As per the recent ethical rules laid down by National institute of Health, diseases which can not be treated \_\_\_\_\_ would qualify for treatment involving human gene manipulation

 Uncommon Alternatively

CORRECT

 Dangerous Similar

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Aptitude Subject: Verbal Ability

Subject: Sentence completion

 Show solution

## Question No: 18

## Multi Choice Type Question

**Identify which part of the sentence is incorrect**

She has been writing(a)/ the book when (b)/ I met her(c)/ no error(d)

 a

CORRECT

 c b d

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Aptitude Subject: Verbal Ability

Subject: Tenses

 Show solution

Question No: 19

Multi Choice Type Question

**Identify which part of the sentence is incorrect**

My grandmother (a)/has been visiting (b)/ our house in summer vacations (c)/ no error(d)

 b

CORRECT

 d a c

Status: Wrong

Mark obtained: 0/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Aptitude Subject: Verbal Ability

Subject: Tenses

 Show solution

Question No: 20

Multi Choice Type Question

A survey conducted recently in the city indicated that most college welfare-aid applicants understate the number of luxury items - such as cars and TVs – that their family owned, in an effort to maximize the amount of aid they can claim from the city. Paradoxically, the same study also found that many applicants claimed that they had running water and a gas connection even when they did not. **Which of the following best explains the apparent paradox?**

While the applicants may be willing to accept that they don't have certain things, they felt

 CORRECT

 CORRECT

embarrassed having to accept  
that they don't have most  
things.

The city does not pay welfare unless the

- applicants have at least some things working for them

Historically, at least 30% of the claims

- have had people understating what they have while only 22% overstated what they had.

Claiming that they do not have a car or a

- TV ensures that the city looks at the applicant more favorably

The people who understated what they had

- were not the same people who overstated what they had

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Aptitude Subject: Verbal Ability

Subject: Critical Reasoning

- Show solution

First    1    2    Last

# Result & Analysis

Student: Abinaya Murugesan ... Test: CAP - 21 - Test 01

Course: Capgemini | 21 | Prep...

## Attempt 1

IP Address: 2409:4072:800:fe46:64e9:876f:f407:cc37

Tab switches: 0

OS used: Windows

Browser used: Chrome

Test Duration: 00:53:32

Test Start Time: Oct 19, 2020 | 09:00 PM

Test Submit Time: Oct 19, 2020 | 09:55 PM

### Overall score



Rank: NA

Topper score: 44.00 / 50

Average score: 27.57 / 50

Least score: 9.00 / 50

### Verbal Ability



Rank: NA

Topper score: 24.00 / 25

Average score: 13.32

Least score: 6.00

### Pseudocode



Rank: NA

Topper score: 24.00 / 25

Average score: 14.25

Least score: 0.00

### Overall Question Status



Total Questions: 50

Questions Attempted: 50

Questions Correct: 39

Question Wrong: 11

Partially Correct: 0

### Verbal Ability - Question Status



Total Questions: 25

Questions Attempted: 25

Questions Correct: 17

Question Wrong: 8

Partially Correct: 0

### Pseudocode - Question Status

Total Questions: 25



Questions Attempted: 25  
 Questions Correct: 22  
 Question Wrong: 3  
 Partially Correct: 0

[Topic wise Analysis](#)[Verbal Ability](#)[Pseudocode](#)**Question No: 1****Multi Choice Type Question**

Spot the part which has error in the given sentence.

Even though, most of India's youth lives in villages, many people considers the ones roaming in dazzling multiplexes as their true reflection.

many people considers

many people are considering

many people consider      CORRECT

many people will consider

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Easy

Question type: MCQ Single Correct    Subject: Aptitude      Subject: Verbal Ability

Subject: Tenses

Show solution

**Question No: 2****Multi Choice Type Question**

**Choose One Of The Correct Form Of The Words In The Brackets Of The Passages**

After fermentation, the beans(1) (is /are) dried, cleaned, and roasted. The shell (2)\_\_\_\_\_ (is /are) removed to produce cacao nibs, which (3) (is /are) then ground to cocoa mass, unadulterated chocolate in rough form. Once the cocoa mass (4) (is /are) liquefied by heating, it (5) (is /are) called chocolate liquor.

is

CORRECT

are**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Easy**Question type:** MCQ Single Correct    **Subject:** Aptitude    **Subject:** Verbal Ability**Subject:** Subject Verb Agreement Show solution**Question No: 3****Multi Choice Type Question**

The ministry of railways has decided to develop 400 identified railway stations under the innovative Swiss Challenge method; it has decided to go ahead with the development of a few stations on its own.

**Which of the following has been assumed in the given statement?**

Railways has decided to upgrade a few

 stations with the help of  
the public sector. Only A and B

Railways has decided to revamp

 the railway stations with the    CORRECT  
help of private sector. There are several methods to develop a  
railway station.

Railways has decided to develop stations

 into commercial hubs  
along with all the amenities for  
passengers.**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude    **Subject:** Verbal Ability**Subject:** Critical Reasoning Show solution

**Question No: 4****Multi Choice Type Question**

Spot the part which has error in the given sentence.

A recycling plant in close proximity to the residential area can pose serious threats from residents by leaving behind persistent pollutants.

- can pose serious threats to residents      CORRECT

has posed serious threats to residents

could pose serious threats to residents

can pose serious threats from residents

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium

**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Tenses

Show solution

**Question No: 5****Multi Choice Type Question**

Cotton acreage in India during the current year has fallen by 15% as cotton growers have moved on to cultivation of other cash crops. This is the result of the cotton glut in world markets in post- September 2008 and the consequent slowdown in the world economy. But this scenario brought with it benefits to one segment of the industry yarn manufacturers as they got higher prices for their produce. Some yarn manufacturers too had stuck up on low-priced cotton last year. The combined effect of all this is evident in the rise in net profits and net margins of yarn manufacturers.

**Which of the following is an inference which can be made from the facts stated in the above paragraph?**

None of these

India was the largest cotton producer earlier.

Cotton production will surely grow in upcoming years.

The yarn manufacturers have marginally suffered during post September 2008 period. CORRECT

The cotton industry grew tremendously post-September 2008.

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium

**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Critical Reasoning

Show solution

**Question No:** 6

**Multi Choice Type Question**

**Choose the correct form of verb:**

Everyone \_\_\_\_\_ working hard at school this year.

Is      CORRECT

are

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Easy

**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Subject Verb Agreement

Show solution

**Question No:** 7

**Multi Choice Type Question**

**Choose One Of The Correct Form Of The Words In The Brackets Of The Passages.**

The use of desktop computer equipment and software to (1) (creates /create) high-quality documents such as newsletters, business cards, letterhead, and brochures (2)\_\_\_\_\_ (is / are) called Desktop Publishing, or DTP. The most important part of any DTP project (3) (are / is) planning. Before you begin, you should know your intended audience, the message you (4)

(wants/want) to communicate, and what form your message will (5) (takes/ take).

are

Is

## CORRECT

**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Medium

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

## **Subject: Subject Verb Agreement**

Show solution

## Question No: 8

## **Multi Choice Type Question**

Choose one word which resembles the sentence: Study of Skin and Skin diseases

## Dermatology

## CORRECT

## Endocrinology

## Gynaecology

## Orthopaedics

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Medium

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

## **Subject:** Synonyms

## **Question No: 9**

## **Multi Choice Type Question**

**Improve the sentence by selecting the correct alternative to the *italicized* part of the sentence.**

Surprisingly Manipur received *scantly* rainfall this year.

Scattered Little Rare

CORRECT

 Heavy**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Easy**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Synonyms Show solution**Question No:** 10**Multi Choice Type Question****Select the word or phrase which best express the meaning of the given word.****CONCEITED** Deceive Arrogant

CORRECT

 FALSE Misconception**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability**Subject:** Synonyms Show solution**Question No:** 11**Multi Choice Type Question****I would gladly accompany your sister if you had asked me.**

- No improvement
- will gladly accompany
- would have gladly accompanied CORRECT
- was to have gladly accompanied

Status: Correct	Mark obtained: 1/1	Hints used: 0	Level: Medium
Question type: MCQ Single Correct	Subject: Aptitude	Subject: Verbal Ability	
Subject: Sentence Correction			

Show solution

Question No: 12

Multi Choice Type Question

**Replace the underlined part of the answer with the best possible option.**

**He has said so out of affection, do not take it to heart.**

- it in the heart
  - by the heart
  - in heart
- No improvement      CORRECT

Status: Correct	Mark obtained: 1/1	Hints used: 0	Level: Medium
Question type: MCQ Single Correct	Subject: Aptitude	Subject: Verbal Ability	
Subject: Sentence Correction			

Show solution

Question No: 13

Multi Choice Type Question

Replace the underlined part of the sentence with the best possible option.

All the allegations levelled against him were found to be baseless.

level with

level against

No correction required

CORRECT

levelled for

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Sentence Correction

Show solution

Question No: 14

Multi Choice Type Question

From the options given, choose the one that fills the blanks most appropriately.

Governments do not want to take a decision and resort to soft-pedaling, delay tactics and collusion, hoping that the judiciary will \_\_\_\_\_ in to relieve them of the burden of decision-making.

come

vouch

barge

step

CORRECT

Status: Wrong

Mark obtained: 0/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Aptitude      Subject: Verbal Ability

Subject: Sentence completion

**Question No: 15****Multi Choice Type Question**

Spot the part which has error in the given sentence.

Bhartapur is transforming into **most fastest growing bird sanctuary** attracting thousands of rare migratory birds from Asia and American.

- most fastest growing bird sanctuary
- the fastest growing bird  
sanctuary      CORRECT
- faster growing bird sanctuary
- the most fast growing bird sanctuary

**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Medium

**Question type:** MCQ Single Correct    **Subject:** Aptitude    **Subject:** Verbal Ability

**Subject:** Tenses

- Show solution

**Question No: 16****Multi Choice Type Question**

**Select the option that is most nearly opposite in meaning to the given word**

TIMOROUS

- Hesitant
- Faulty
- Brave      CORRECT
- Meek

**Status:** Wrong

**Mark obtained:** 0/1

**Hints used:** 0

**Level:** Hard

**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability

**Subject:** Antonyms

Show solution

**Question No: 17**

**Multi Choice Type Question**

Spot the part which has error in the given sentence.

Angered over the delay in giving compensation, factory workers shouted slogans against the President when he reaches the office.

when he has reached the office.

when he had reached the office

when he reaches the office

when he reached the office      CORRECT

**Status:** Wrong

**Mark obtained:** 0/1

**Hints used:** 0

**Level:** Easy

**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability

**Subject:** Tenses

Show solution

**Question No: 18**

**Multi Choice Type Question**

Though no heavy rain has been received in the city and water is receding from most areas in Chennai and massive relief operations are underway, the city is staring at an outbreak of epidemics with tones of stinking garbage littering the streets as bright sunshine further eased the situation.

**Which of the following has been assumed in the given statement?**

Massive rains are the major cause of epidemics in the cities.

Improper drainage system in Chennai is  
the major cause of flood in the city

~~the major cause of flood in the city.~~

None of these

Garbage in the city is the major concern of epidemics. CORRECT

Chennai needs proper planning to

overcome heavy rains in the city.

**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Medium

**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Critical Reasoning

Show solution

**Question No:** 19

**Multi Choice Type Question**

**What are needed are not large houses but small cottages.**

was

No improvement

were

is CORRECT

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Easy

**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Sentence Correction

Show solution

**Question No:** 20

**Multi Choice Type Question**

Read the following information carefully and answer the questions which follow:

Supermarkets are growing at a fast pace than Kirana stores. Kirana stores are such places where customer go to purchase their necessities. In place of five Kirana stores one or two

supermarkets are being established. It has been found that customers' requirements are looked after by trained staff. It has been found that food products are low life products which are manufactured from local manufactures. These products are typically purchased by the customer on the assurance. The market is appealing to supermarkets and retail outlet owners are setting up their business in other areas where there are less Kirana stores.

**Which of the following can be a good argument in favour of shopping from Kirana stores instead of supermarkets?**

Most Kirana stores are closed atleast one

- day in a week whereas  
supermarkets are open 365 days a year.

People prefer supermarkets because they

- offer a larger range of products, ie  
products other than FMCG and they can  
buy everything under one roof.

- Very few Kirana stores sell products at a  
bargained price.

People end-up buying other  
irrelevant things along with

- those on their shopping lists in      CORRECT  
supermarkets and then they  
have to stand in long queues at  
the billing counters.

- Kirana stores do not accept debit and  
credit cards.

**Status:** Wrong      **Mark obtained:** 0/1      **Hints used:** 0      **Level:** Medium

**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Critical Reasoning

- Show solution

# Result & Analysis

Student: Abinaya Murugesan ... Test: CAP - 21 - Test 04

Course: Capgemini | 21 | Prep...

## Attempt 1

IP Address: 2409:4072:e8e:c8a8:4886:2b51:6de7:d5e4

Tab switches: 1

OS used: Windows

Browser used: Chrome

Test Duration: 00:54:57

Test Start Time: Oct 22, 2020 | 08:51 PM

Test Submit Time: Oct 22, 2020 | 09:47 PM

### Overall score



Rank: NA

Topper score: 50.00 / 55

Average score: 30.34 / 55

Least score: 0.00 / 55

### Pseudocode



Rank: NA

Topper score: 23.00 / 25

Average score: 14.37

Least score: 0.00

### Verbal Ability



Rank: NA

Topper score: 28.00 / 30

Average score: 15.96

Least score: 0.00

### Overall Question Status



Total Questions: 55

Questions Attempted: 55

Questions Correct: 42

Question Wrong: 13

Partially Correct: 0

### Pseudocode - Question Status



Total Questions: 25

Questions Attempted: 25

Questions Correct: 21

Question Wrong: 4

Partially Correct: 0

### Verbal Ability - Question Status



Total Questions: 30



Questions Attempted: 30  
Questions Correct: 21  
Question Wrong: 9  
Partially Correct: 0

[Topic wise Analysis](#)[Pseudocode](#)[Verbal Ability](#)**Question No: 1****Multi Choice Type Question**

Brian's pale Irish skin was \_\_\_\_\_ to burn if he spent too much time in the sun.

 prone

CORRECT

 urbane eminent erect daunted**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Sentence completion Show solution**Question No: 2****Multi Choice Type Question**

(Make necessary changes if the sentence requires.)

***Pleased with their behaviour, it was decided by him to praise them.***

 he decided to praise them.

CORRECT

 they praised him.

they were praised by him.

No error

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Medium

**Question type:** MCQ Single Correct **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Sentence Correction

Show solution

**Question No: 3**

**Multi Choice Type Question**

**Identify which part of the sentence is incorrect**

I seldom had written (a)/ a blank cheque (b)/ in my life(c)/ no error(d)

a

CORRECT

b

c

d

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Easy

**Question type:** MCQ Single Correct **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Tenses

Show solution

**Question No: 4**

**Multi Choice Type Question**

**Identify which part of the sentence is incorrect**

Shiya usually does(a)/ the cooking but(b)/ I have been doing it (c)/today as she isn't

there(a)/no error(e)

a

b

c

CORRECT

d

Status: Wrong

Mark obtained: 0/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Aptitude Subject: Verbal Ability

Subject: Tenses

Show solution

Question No: 5

Multi Choice Type Question

**Look into the statement and change the voice.**

Where do they buy the utensils ?

Where did the utensils bought ?

Where was the utensils bought ?

Where are the utensils bought ? CORRECT

Where were the utensils bought ?

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Aptitude Subject: Verbal Ability

Subject: Voices

Show solution

Question No: 6

Multi Choice Type Question

The commercial was taken \_\_\_\_\_ air as it was considered offensive.

Out

From

Off

CORRECT

In

Status: Wrong      Mark obtained: 0/1      Hints used: 0      Level: Medium

Question type: MCQ Single Correct    Subject: Aptitude      Subject: Verbal Ability

Subject: Prepositions

Show solution

Question No: 7

Multi Choice Type Question

Select the word or phrase which best expresses the OPPOSITE of the given word.

**RUDE (Opposite)**

Detest

Beastly

Respectful      CORRECT

Hideous

Not Sure

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Easy

Question type: MCQ Single Correct    Subject: Aptitude      Subject: Verbal Ability

Subject: Antonyms

Show solution

## Question No: 8

## Multi Choice Type Question

S1: The heart is pump of life.

P : They have even succeeded in heart transplants.

Q : Nowadays surgeons are able to stop a patients heart and carry out complicated operations.

R : A few years ago it was impossible to operate on a patient whose heart was not working properly.

S : If heart stops we die in about five minutes.

S6: All this was made possible by the invention of heart-lung machine.

**The Proper sequence should be**

 SRQP

CORRECT

 SPRQ SQPR SRPQ Not sure**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Para Jumbles

## Question No: 9

## Multi Choice Type Question

**(Choose the correct answer.)**

Have driven around the block, \_\_\_\_\_

 book crashed. Saif crashes the car.

CORRECT

tree crashed the car. the leaves have fallen back.**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Easy**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Sentence Correction Show solution**Question No:** 10**Multi Choice Type Question****Choose the correct form of verb:**

Neither Freckles nor his friends \_\_\_\_\_ planning to go on the hike.

 Are

CORRECT

 Is**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability**Subject:** Subject Verb Agreement Show solution**Question No:** 11**Multi Choice Type Question**

I am \_\_\_\_\_ MBBS student.

 An

CORRECT

 A The

No article**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Easy**Question type:** MCQ Single Correct    **Subject:** Aptitude    **Subject:** Verbal Ability**Subject:** Articles Show solution**Question No:** 12**Multi Choice Type Question****Identify which part of the sentence is incorrect**

Yesterday night (a)/ we have heard (b)/ about a terrifying incident (c)/ no error(d)

 a b

CORRECT

 c d**Status:** Correct    **Mark obtained:** 1/1    **Hints used:** 0    **Level:** Medium**Question type:** MCQ Single Correct    **Subject:** Aptitude    **Subject:** Verbal Ability**Subject:** Tenses Show solution**Question No:** 13**Multi Choice Type Question**

At this stage of civilization, when many nations are brought in to close and vital contact for good and evil, it is essential, as never before, that their gross ignorance of one another should be diminished, that they should begin to understand a little of one another's historical experience and resulting mentality. It is the fault of the English to expect the people of other countries to react as they do, to political and international situations. Our genuine goodwill and good intentions are often brought to nothing, because we expect other people to be like us. This would be corrected if we knew the history, not necessarily in detail but in broad outlines of the social and political conditions which have given to each nation its present

~~...and the social and political conditions which have given to each nation its present character.~~

### The need for a greater understanding between nations..

is more today than ever before CORRECT

was always there

is no longer there

will always be there

Not sure

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Medium

Question type: MCQ Single Correct    Subject: Aptitude      Subject: Verbal Ability

Subject: Reading Comprehension

Question No: 14

Multi Choice Type Question

Select the word or phrase which best expresses the meaning of the given word.

Sumptuous

Luxurious      CORRECT

poor

Musty

destitute

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Medium

Question type: MCQ Single Correct    Subject: Aptitude      Subject: Verbal Ability

**Subject:** Synonyms**Question No: 15****Multi Choice Type Question**

At this stage of civilization, when many nations are brought in to close and vital contact for good and evil, it is essential, as never before, that their gross ignorance of one another should be diminished, that they should begin to understand a little of one another's historical experience and resulting mentality. It is the fault of the English to expect the people of other countries to react as they do, to political and international situations. Our genuine goodwill and good intentions are often brought to nothing, because we expect other people to be like us. This would be corrected if we knew the history, not necessarily in detail but in broad outlines, of the social and political conditions which have given to each nation its present character.

**The character of a nation is the result of its...**

gross ignorance

cultural heritage

socio-political conditions      CORRECT

mentality

**Status:** Correct      **Mark obtained:** 1/1      **Hints used:** 0      **Level:** Easy

**Question type:** MCQ Single Correct    **Subject:** Aptitude      **Subject:** Verbal Ability

**Subject:** Reading Comprehension

Show solution

**Question No: 16****Multi Choice Type Question**

At this stage of civilization, when many nations are brought in to close and vital contact for good and evil, it is essential, as never before, that their gross ignorance of one another should be diminished, that they should begin to understand a little of one another's historical experience and resulting mentality. It is the fault of the English to expect the people of other countries to react as they do, to political and international situations. Our genuine goodwill and good intentions are often brought to nothing, because we expect other people to be like us. This would be corrected if we knew the history, not necessarily in detail but in broad

outlines, or the social and political conditions which have given to each nation its present character.

### Englishmen like others to react to political situations like..

- others
- us
- themselves
- each others

CORRECT

Status: Correct      Mark obtained: 1/1      Hints used: 0      Level: Easy  
Question type: MCQ Single Correct    Subject: Aptitude      Subject: Verbal Ability  
Subject: Reading Comprehension

### Question No: 17

### Multi Choice Type Question

Small brands are now looking beyond local grocery stores and are trying up with supermarkets such as Big Bazaar to pull their business out of troubled waters.

Which of the statement can be assumed from the facts/information given in the statement?

- A smaller brand manufacturing a certain product of quality comparable with that of
- a bigger brand, makes much more profit from the local grocery stores than from the supermarkets.

- As the supermarkets have been set up only
- in bigger cities at present, this step would fail to deliver results in the smaller cities

- Supermarkets help the smaller brands
- break into newer markets without investing substantially in distribution.

- Supermarkets charge the smaller brands
- 10% higher than the amount charged to the

bigger brands.

Being outnumbered by the bigger brands,  
visibility of the smaller brands at local  
grocery stores is much lower as compared  
to the supermarkets

- Smaller brands are currently  
 making substantial losses in      CORRECT  
their business.

Status: Wrong      Mark obtained: 0/1      Hints used: 0      Level: Hard

Question type: MCQ Single Correct      Subject: Aptitude      Subject: Verbal Ability

Subject: Critical Reasoning

Question No: 18

Multi Choice Type Question

**Identify which part of the sentence is incorrect**

She owned (a)/ this parlour (b)/ since 2002 (c)/ no error(d)

- a      CORRECT

- b

- c

- d

Status: Wrong      Mark obtained: 0/1      Hints used: 0      Level: Medium

Question type: MCQ Single Correct      Subject: Aptitude      Subject: Verbal Ability

Subject: Tenses

Show solution

Question No: 19

Multi Choice Type Question

**LOOK INTO THE STATEMENT AND CHANGE THE VOICE.**

He arrived at the conclusion.

The conclusion was arrived at by him.      CORRECT

The conclusion arrived at by him.

The conclusion had arrived at by him.

The conclusion have arrived at by him

**Status:** Correct

**Mark obtained:** 1/1

**Hints used:** 0

**Level:** Hard

**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability

**Subject:** Voices

Show solution

**Question No:** 20

**Multi Choice Type Question**

**Change the following into direct speech.**

The teacher said that water boils at 100°C.

The teacher said, "Water will boil at 100°C."

The teacher said, "Water boils at 100°C."      CORRECT

The teacher says, "Water boils at 100°C."

The teacher said, "Water boiled at 100°C."

**Status:** Correct

**Mark obtained:** 1/1

**Hints used:** 0

**Level:** Easy

**Question type:** MCQ Single Correct **Subject:** Aptitude **Subject:** Verbal Ability

**Subject:** Speeches

Show solution

First      1      2      Last