Pseudo Code

Question 1

What will be the output of the following C code

```
#include<stdio.h>
int main()
{
  char a='D';
  printf(" %d",a);
  return 0;
}
```

- 67
- 69
- 68 ans
- error

Question 2

What will be the output of the following C code

```
#include<stdio.h>
int main()
{
    int a = 0,i = 0,b;
    for(i=0;i<5;i++)
    {
        a++;
        if(i == 3)
```

```
        printf("Hello world");
        break;
    }
    printf("%d",a);
    return 0;
}
```

2

hello world

1 ans

4

Question 3

What will be the output of the following C code

```
#include<stdio.h>
void main()
{
    int k=4;
    int *const p =&k;
    int r = 3;
    p = &r;
    printf("%d", p);
}
```

It will print address of r

It will print address of k + address of r

It will print address of k

Compile time error ans

Question 4

what is the maximum degree of any vertex in a simple graph with n vertices ?

n+1

2n-1

n

n-1 ans

Question 5

What will be the output for the pseudo-code for p=22, q=127

```
fun(int p,int q)
    if(p==0)
        return q;
    else
        return fun(p-1 , p-q)
```

9

6

None of the mentioned above ans

error

Question 6

find out the number of interchanges needed to convert the given array into a max-heap.
89,19,50,17,12,15,2,5,7,11,6,9,100

5

4

3 ans

2

Question 7

Which of the following statements is/are TRUE for undirected graphs ?

P: Number of odd degree vertices is even.
Q: Sum of degree of all vertices is even.

Both P and Q ans

- Neither P nor Q
- Q Only
- P Only

Question 8

what will be the output of the following algorithm?

```
Start

Declare a, I and b

for I =0 to 4

    Increment a by 1

    if I = 3 then

        print hello

        get out of the loop

    End if

End for

print a
```

- 4
- 1
- hello4 ans
- hello

Question 9

what will be the output of the following pseudocode?

```
Input m =9,n = 6

m = m + 1

n = n + 1

m = m + n

if(m>n)
```

```
    print m
else
    print n
```

17 ans

5

6

10

Question 10

what will be the output of the following pseudocode?

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

0 1 2 4 ans

0 1 2 3

1 0 2 4

0 1 3 8

Question 1

What will be the output of the following code?

```
#include <iostream>
using namespace std;
int main()
{
```

```
    int x=1,y=1;
    for(;y;cout<<x<<y<<" ")
    {
        y=x++ <=5;
    }
    return 0;
}
```

31,71,41,60,21

22 23 44 55

21 31 51 61

21 31 41 51 61 70 ans

Question 2

What will be the output of the following code?

```
#include<stdio.h>
int main()
{
    int i=1,j;
    for(;;)
    {
        if(i)
            j=--i;
        if(j<5)
            printf("Advance ",j++);
        else
            break;
    }
    return 0;
}
```

No, compile error but it'll print Advance Five-time ans

No, compile error but it will run into an infinite loop printing Advance.

No, compile error but it'll print Advance Four-time.

Compile-time error.

Question 3

What will be the output of the following code?

```
#include<stdio.h>
int main()
{
    int x=4,y=0;
    int z;
    z=(y++,y);
    printf("%d\n",z);
    return 0;
}
```

1 ans

zero - '0'

compiler error

undefine behavior due to the order of evolution can be different

Question 4

What will be the output of the following code?

```
#include <stdio.h>
int f(int n)
{
    static int a=0;
    if(n<=0)
```

```
    {
        return 1;
    }
    if(n>3)
    {
        a=n;
        return f(n-2)+2;
    }
    return f(n-1)+a;
}
int main()
{
    printf("Result:%d",f(5));
    return 0;
}
```

19

9

12

18 ans

Question 5

What will be the output of the following C code?

```
#include <stdio.h>
#define LIMIT 500
void fun2(int n)
{
    if(n<=0)
    {
```

```
        return ;
    }
    if(n>LIMIT)
    {
        return ;
    }
    printf(" %d ",n);
    fun2(2*n);
    printf(" %d ",n);
    }
int main()
{
    fun2(17);
    return 0;
}
```

17 34 68 136 272 272 136 68 34

17 34 68 136 272 272 136

17 34 68 136 272 272 136 68 34 17 ans

17 34 68 136 272 272

Question 6

What will be the output of the following C code?

```
#include <stdio.h>
int main()
{
    int x=9,y=2,z=6;
    int a=x&y|z;
    printf("%d",a);
    return 0;
```

```
}
```

Error

2

6 ans

3

Question 7

What will be the output of the following C code?

```
#include <stdio.h>
union Sti
{
    int nu;
    char m;
};
int main()
{
    union Sti m;
    printf("%d",sizeof(m));
    return 0;
}
```

16

12

4 ans

5

Question 8

What will be the output for the pseudocode for x=11, y=57

```
fun(int x,int y)
```

```
    if(x==0)
        return y;
    else
        return fun(x-1 , x-y)
```

9

6

None of the above ans

0(Zero)

Question 9

What will be the output of the following algorithm?

```
#include<stdio.h>
int main()
{
  int no=8125, temp, digit, sum = 0;
    temp = no;
    while  (no > 0)
    {
        digit = no % 10;
        sum  = sum + digit;
        no /= 10;
    }
    printf("%d\n",sum);
  return 0;
}
```

17

16 ans

15

error

Question 10

What will be the output of the following C code

```
#include<stdio.h>

int main()

{

    int x=2,y=0,z=3;

    x>y ?( printf("%d", z)):( return z);

}
```

error ans

2

3

0(Zero)

Question 1

What will be the output of the following pseudocode?

```
integer a, b, c, a1, b1, c1, a2, b2, c2;

Set a1 = 2 b1 = 45 c1 = 36;

Set a2 = 11 b2 = 26 c2 = 30;

    c = c1 + c2;

    b = c / 60;

    c = c % 60;

    b = b + b1 + b2;

    a = b / 60;

    b = b % 60;

    a = a + a1 + a2;

Print a:b:c
```

5 : 10 : 15

10 : 15 : 60

14 : 12 : 6 ans

20 : 22 : 26

Question 2

What will be the output of the following pseudocode if n=40 and LIMIT=100?

```
Integer fun2(Integer n);

if(n <+ 0)

    return 1;

if(n > LIMIT)

    return 2;

Print ,n

fun2(2*n);

Print n

End function fun2()
```

10 20 20 10

20 40 40 20

40 80 80 40 ans

80 120 120 80

Question 3

For which of the following sets of input, the following pseudocode will print Q?

```
integer a=32,b=69,c=68;

if(a+c>b)

    if(b<c)

        printf("P");

    else

        printf("Q");
```

P

Q ans

R

S

Question 4

What will be the output of the following pseudocode for x=3 and y=4?

```
integer fun(int x, int y)

if(x>0)

    fun(x-1,y+1);

End if

Print y

End function fun()
```

- 8 5 4 2
- 7 6 5 4
- 5 2 1 4
- 2 0 3 4

Question 5

What will the output of the following pseudocode for i=140?

```
integer fun(int i)

if((i%2)!=0)

    return i;

else

    return fun(fun(i=1));

End function fun()
```

- 1 ans
- 2
- 3
- 0(Zero)

Question 6

What will be the output of the following pseudo-code for a given array a[5]=3,4,6,1,2 and pos=2 [note: n= 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 of loop]

    n=n-1;

    Display the new array

End
```

3 6 1 5

3 4 2 1 5

3 4 1 2 ans

3 2 4 6 1 5

Question 7

What will be the necessary condition to get the desired element from a given array by using the following algorithms?

```

If LOC = -1 do ITEM NOT FOUND

Do_Something(DATA, N, ITEM,LOC)

initialize Counter set LOC=0, LOW=0, HI= N-1

[Search for item]

Repeat while LOWs HI

    MID = (LOW+HI)/2

IF ITEM = DATA[MID] do

    LOC+MID

    Return LOC

IF ITEM = DATA [MID}

    HI = MID-1

ELSE

    LOW = MID+1
```

the elements should contain more than one element

.the array should contain more than one element

The elements is an array should be in the sorted form. ans

No pre-condition is required for the algorithm to work

Question 8

What will be the output of the following C code?

```
#include<stdio.h>

int main()

{

     int x = 2, y = 0, z = 3;

     x>y ? printf(“%d”, z);;

}
```

3

No Output

Error ans

Question 9

What will be the output of the following C code?

```
Set a=3; b=5;c=1;

a=a+b+c-8;

b=a+c-8;

if(a>b)

    Print fine

else

    Printf Thank you
```

Fine ans

Thank you

Error

None of the above

Question 10

consider the following given code and predict its output.

```
main()
int num[ ]={1,4,8,12,16};
int *a,*b;
int i;
    a=num;
    b=num+2;
    i=*a++;
    printf("%d, %d, %d\n",i,*a,*b);
```

1,4,8 ans

4,1,8

2,1,8

4,4,8

Question 1

Time: 00:00:15

What will be the output of the following pseudocode?

```
integer a, b, c;

Set a = 3;

b = 5;

c = 1;

a = a + b + c - 8;
```

```
b = a + c - 8;



if (a > b)



Print fine

else



Printf Thank you
```

- Fine ans
- Thank You
- Error
- None of the above

Question 2

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

```
#include <stdio.h>



integer

fun (int a[], int n)

integer x;



if (n is equal to 1)



return a[0];



else
```

```
x = fun (a, n - 1);

if (x == a[n - 1])

return x;

else

return a[n - 1];

End the function fun ()
```

- 100
- 200 ans
- 300
- 400

Question 3

What will be the output of the following pseudocode?

```
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
```

30 10 27 70

3 10 27 70 ans

13 10 47 70

13 10 27 70

Question 4

What will be the output of the following code :

```
Integer a, b, c, v;


Set a = 5;


b = 6;


v = 90;


while (v > 8)


a = a + v;


c = (a + b) % 10;


while (c > 9)


b = b - a;
```

```
c = c - 1;


End while


v = v/2


End while


Print b, c
```

6 9 ans

5 7

1 7

3 5

Question 5

What will be the output of the following code ?

```
for (i = 1; i <= 6; i++)


  for (j = i; j < 6; j++)


Print blank space


for (k = 1; k < (i * 2); k++)
```

```
  Print *

End for

  Line break

End for
```

None of the mentioned ans

Error

* ** *** **** *****

* *** ***** ******* ********* ***********

Question 6

What will be the output of the following pseudocode?

```
integer a, b, c;

Set a = 6;

b = 84;

while (b > 0)
```

```
b = b / 2;


a = a + 6;


c = a + b;


while (c > 40)


if (c mode 2 is equal to 0)


Print a


else


Print b c = c / 10;


End while Print c
```

12 1 4 48

12 1 48 4 ans

1 12 48 4

10 12 4 48

Question 7

what will be the output of the following pseudocode?

```
Integer n, rev, rem, orig;

Set n=63206; rev=0;

Set orig=n;

Repeat while n Not Equals 0

rem=n%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
```

120

110

495 ans

105

Question 8

What will be the output of the pseudocode?

```
Integer i,j,sum,n;

Set sum=0, n=7;

Repeat for i=1 to n

Repeat for j=1 to i

sum=sum+j

End loop

End loop

Print sum
```

80

84 ans

75

90

Question 9

For what value of a b and c the following pseudocode will execute both the print statements?

```
integer a,b,c;

set a = 5, b = 4, c = 7;

if(a>b OR a>c)

Print a

if(a+b>c AND b<c)

Print b
```

5 4 ans

3 2

4 5

5 9

Question 10

What will be the output of the following pseudocode?

```
integer a,b;

Set a=2; b=50;

while(b>0)

a = b%2 + a;

if( a MOD 2 Is Equal To 0)

Printf a

else

Print b-1

b = b/5

a=a+1

End while
```

1 2 3

4 5 8

2 9 4 ans

2 5 4

Question 1

What will be the output of the pseudocode?

```
Integer x, y, z

Set x=10,y=12,z=12

z=(x+y)/4

if(z IS EQUAL TO 12)

Print successful

Else

Print unsuccessful
```

successful

unsuccessful ans

Error

None of the above

Question 2

What will be the output of following pseudocode?

```
Integer a,b,count,count1

Set a=1, b=1

while(a<=5)

b=1
```

```
while(b<=5)

b=b+1

count1 = count1 + 1

end while

a= a + 1

count = count +1

End while

Print count, count1
```

- count=5 count1=25 ans
- count=45 count1=25
- count=50 count1=5
- count=50 count1=25

Question 3

what will be the output

```
#include<stdio.h>

int main()

{

    int number = 10, expo = 2,temp = 1;

    while (expo is not equals to  0)

    {

        temp = temp * number;

        --expo;

     }

    printf("%d, %d",number, temp);
```

```
    return 0;
}
```

10,100 ans

100,10

Error

None of the above

Question 4

What will be the output of following pseudo code?

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

100

120

140 ans

160

Question 5

What will be the output of the following:

```
Integer a,b,c

Set a=10,b=20

for(c=a;c<=b;c=c+2)

a=a+c

b=b-a+c

if(a>10)

Print a

else

Print b

End if

End for
```

10

20 ans

30

40

Question 6

What will be the output of the following c code?

```
#include

int main()

{

int a = 45;
```

```
int i=sizeof(a);

printf("%d",i);

}
```

1

6

2

4 ans

Question 7

what will be output of following c code?

```
#include<stdio.h>

int f(int n)

{

static int a =0;

if(n<=0)

{

return 1;

}

if(n>3)

{

a=n;

return f(n-2) +2;

}

return f(n-1) + a;

}

int main()
```

```
{
printf("Result: %d",f(5));
return 0;
}
```

19

9

2

18 ans

Question 8

What will be the output of the following pseudo-code for input 7?

```
Read the value of N.

Set m=1,T=0

If m >N

    Go to line No. 9

Else

    T= T+m

    m=m+1

    Go to line no.3
```

```
Display the value of T


Stop
```

28 ans

32

56

76

Question 9

what will be the output of the following algorithm for Num=10?

```
Start
Declare variable I,J and Num
Enter value of Num
Repeat for I=1 to Num
Declare static variable sap and set sap =0
sap=sap+I
J=sap
End loop
Print J
```

55 ans

85

75

65

Question 10

Consider the following pseudocode.

```
a=1;

b=1;

while(a<=500)

Begin

a=2^a;

b=b+1;

End
```

What is the value of b at the end of the pseudocode?

- 4
- 5 ans
- 6
- 7

Question 1

Q1- below is a pseudocode

```
Set x to 0;


Set n to 1;


while (n <= 100)


  x = x + n;


  n = n + 1;
```

```
end write x
```

What is the output of the above pseudocode?

- 5050 ans
- 100
- 4950
- 5151

Question 2

Q2-Below is a pseudo-code

```
Set x to 1;
Set x1 to 0;
Set x2 to 0;
Set x3 to 1;
While (x < 10)
Set x1 = x1 + x2 + x3;
Set x2 = x2 + x1 + x3;
Set x3 = x3 + x2 + x1;
Write x1;
write x2;
write x3;
x = x + 1;
```

In which series is the output

- Tribonacci series ans
- Fibonacci series
- Triangular series

Arithmetic series

Question 3

Q 3-What will be the output of the following pseudocode?

```
Integer a,b,c
Set a=6,b=84
while(b>0)
b=b/2
a=a+6
c=a+b
while(c>40)
if(c mod 2 IS EQUAL TO 0)
Print a
else
Print b
c=c/10
End while
End while
Print c
```

48, 4

12, 4

12, 1, 4

12, 1, 48, 4 ans

Question 4

What will be the output of the following pseudocode for i=140?

```
Integer fun(integer i)
if((i MOD 2) NOT EQUALS 0)
Return i
Else
Return fun(fun(i-1))
End function fun()
```

- None of the mentioned options
- 138
- 140
- 139 ans

Question 5

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

```
bstree(*tree)
{
    while((tree->left !=null)&&(tree->right !=null))
    {
        if(tree-> root)
            bstree(tree->left);
        else
            return (1);
```

```
        if(tree->right > tree->root)
            bstree(tree->right);
        else
            return (1);
    }
    return (0);
}
```

- Bubble sort
- Tests whether a binary tree is a Binary Search Tree ans
- Prim’s algorithm
- None of the mentioned options.

Question 6

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)
b=b/5
a=a+1
end while
```

- 3,3,3

49,3,1 ans

50, 10, 2

50, 3, 2

Question 7

What will be the output of the following pseudocode?

```
Integer a, b, c, d, e
Set a=50 , b=3, c=3
while(c>0)
d=a mod b
e= e + d + a
c= c - 1
End while
Print e
```

52

100

156 ans

153

Question 8

What will be the output of the following pseudocode?

```
Integer array1[10] = {2, 3, 56, 34}
Integer k, a, j, n
```

```
Set a = 3, n = 4

for(each k from 0 to n-1)

Set array1[n] = array1[0]

for(each j from 0 to n-1)

Set array1[j] = array1[j+1]

End for

End for

for(each k from 0 to n-1)

Print array1[k]

End for
```

- 56 34 3 2
- 34 2 3 56
- 2 3 34 56
- None of the mentioned options ans

Question 9

What will be the output of the following pseudocode?

```
Integer j,i,count,num

Set j=31, count=0, num=64

while(num NOT EQUALS 0)

    if((num&1) is EQUAL to 1)

        Jump out of the loop

    else

        count=count+1

    num = num>>1

    End while
```

```
Print count
```

6 ans

95

12

5

Question 10

What will be the output of the following pseudocode for a given set of input?

```
integer a
if((a mod 10) IS EQUAL TO 0)
a=a*2
else if((a mod 5 ) IS EQUAL TO 0)
a=a/5
else
a=a-1
end if
```

input : a=25, a=16

a=5,a=15 ans

a=15,a=20

a=25,a=15

a=35,a=25