	D. O 13 Reset	
24,	What will be the output of the following pseudocoxie?	
*	1. String str1="mars",str2="lion" 2. Print isPalin(str2+str1)+countVowel(str2+str1)	
	Note: countVowel(string) returns the number of vowels in the string. Ex-countVowel(*okay*) returns 2. isPalin(string) returns 1 if the string is a palindrame, otherwise returns 0. Ex-isPalin("yyy") returns 1.	
	B. •3	
	C O2 D. O7	
	Reset	1200
75.	Solve the given postfix expression. 2 3 1 - 5 * +	
р5:	A O8	
	B. 010	
	C 12	
	D. O6	
	Reset	

C. 948 D. 049 Reset

Q 23. What will be the output of the following pseudocode for a=2, b=12

- Integer funn(Integer a, Integer b)
- if(b&a>0)
- return funn(b-1,a+2)
- 4. End if
- return bea

Note- &: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to

Ops: A. @4

B ()-1

C 05 .

D. O13

Reset

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

- String str1="mars", str2="lion"
   Print isPalin(str2+str1)+countVowel(str2+str1)

Note: countVowel(string) returns the number of vowels in the string. Ex- countVowel("okay") returns 2. isPalin(string) returns 1 if the string is a palindrame, otherwise returns 0. Ex- isPalin("lose") and

Ops: A CIS

```
22. What will be the output of the following pseudo code?
       1. Integer a,b,c
       2. Set a=1, b=5, c=8
       3. if((c+b+a)<(4-a-c))
               b-c+a
       5. Else
               b=b+c
       7.
              b=(c+12)+a
         End if
       8.
                             A
       9. c=5+b
          Print atbic
      10.
ps: A. O43
    B. O53
    C 948
    D 049
    Reset
23. What will be the output of the following pseudocode for a=2, b=1?

    Integer funn(Integer a, Integer b)

 if(b&a>0)
```

Note- 8: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

return funn(h-1,a+2)

3.

4.

End if

return b+a

```
Q 21. What will be the output of the following pseudo code?
        1. Integer a,b,c
        2. Set a=1, b=5, c=8
        3. if((bi8)<c)
                c=(c+b)+b
        5. Else
               c=(c+b)+a
       7. End if
       8. c=(6+7)+b
       9. if((b+c)<(a-b))
       10.
               b=(a+c)+a
       11. End if
       12. Print a+b+c
Ops: A. 035
     B. 04
     C. @ 24
     D. ()32 1
     Reset
Q 22. What will be the output of the following pseudo code?
        1. Integer a,b,c
        2. Set a=1, b=5, c=8
        3. if((c+b+a)<(4-a-c))
        4.
                b-c+a
        5. Else
        6. b=b+c
        7.
                b=(c+12)+a
        8. End if
```

	Res	et			
Q 18.	If we draw a binary search tree by inserting the given numbers from left to right, then what would be the height of the				
7	BST	7	great numbers from left to right, then what would be the height of the		
3.	103	, 83, 93, 73, 53			
ps:	A.	06			
	B.	05			
	C	04			
	D,	3			
	Res	et			
	-				
Q 19.	In t	inked List memory is a	located dustria		
	-	ompile time	accuracy during -		
	11. 1	Run time			
Opst	A,	Only II			
	B.	O Cinly II			
	C.	O Both 1 and II			
		O Neither I Nor II			
	Re				
Q 20.	Fin	d out the ramber of w	rtices in a simple graph, if there are 8 edges, 2 vertices of degree 3, and all others of degree 2		
Opsi	A.	06	social in a simple graph, if there are 8 edges, 2 vertices of dome.		
	В.	08	degree 3, and all others of degree ;		
		.7			
		09 =			
		set			
	- 22	200			

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

- 1. Integer p,q,r
- 2. Set p=9, q=6, r=4
- 3. r=10^p
- 4. p=r+r
- 5. p=p+q
- 6. p=12&r
- 7. Print p+q+r

Note- &c bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result

Ops: A 023

B. O11

C. O3

D. 19

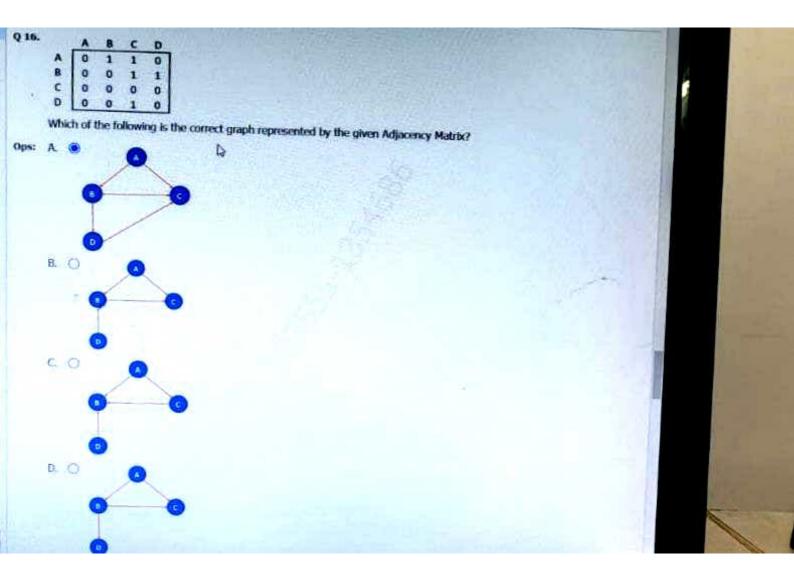
Reset

Q 18. If we draw a binary search tree by inserting the given numbers from left to right, then what would be the height of the

Ops: A. O6

B. 05

C. 04



```
C 07
     D. O0
     Reset
Q 15. What will be the output of the following pseudocode?
       1. Integer i, m
        2. Set m=1
       3. Integer a[5] = { 1, 2, 2, 5, 1 }
       4. for(each i from to 4)
               a=1
       6. End for
       7. m-a[0]+a[4]+a[1]
       8. Print m
Ops: A 013
    8 3
    C. O0
    D. 07 .
```

Q 16.

Reset

Which of the following is the correct graph represented by the given Adjacency Matrix?

```
Q 14. What will be the output of the following pseudo code?
         1.
         2. Integer j
         3. Integer arr[2][2] ({0, 1}, {1, 2})
         4. if((arr[0][0]+arr[0][1])<(arr[0][1]-arr[0][1]))
                   arr[1][0]~(arr[0][1]&arr[0][1])^arr[1][1]
         6.
                   arr[0][1]=(arr[0][1]&4)+arr[0][1]
         7.
            End if
            Print arr[1][1]+arr[0][1]
     Note: 8: bitwise AND - The bitwise AND operator (8) compares each bit of the first operand to the corresponding bit of the
     second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to
     Note- ^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its
     second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding
Ops: A. @3
      H. Q 13
```

Ops: A. O5

B. 04 C. 06 D. 03 Reset

C. ○7 D. ○0 Reset

Q 15. What will be the output of the fair.

3. Integer arr[2][2]= {{0, 1}, {1, 2}}

8. Print arr[1][1]+arr[0][1]

6.

7. End if

4. if((arr[0][0]+arr[0][1])<(arr[0][1]-arr[0][1]))

arr[0][1]=(arr[8][1]84)+arr[0][1]

arr[1][0]-(arr[0][1]%arr[0][1])^arr[1][1]

```
2 11. What will be the output of the following pseudo code?
       1. Integer p,q,r
       2. Set p=1, q-2, r=10
       3. if((q%p)<(8-q))
               p=(r+17)^q
               if((r+3)<(3-r))
       6.
                    p-q^q
       7.
                End if
                             D
       8. Else
       9.
               if((q^p)<r)
      10.
                    q=5+r
      11.
                    r=(r^q)+q
      12.
                End if
      13.
                r-(r+4)+p
      14. End if
```

Note: 8: bitwise AND - The bitwise AND operator (8) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result

Opsi A OBO

B. 932

15.

Print p+q+r

C ()39

D. 044

Reset

```
Q 10. What will be the output of the following pseudo code?
```

```
1. Integer pp.qq.rr
2. Set pp-1, qq-2, rr=10
 if((qq&rr)<pp)</li>
4.
        pp-(qq&4)+pp
5. Else
 6.
        rr=(rr+pp)&rr
 7.
        if((rr+qq+pp)<(9-rr))
8.
            rr-qq+qq 13
9.
        Else.
16.
            rr=(12^4)+rr
11.
        End if
12. End if
13. Print pp+qq+rr
```

Note: 8: bitwise AND: The bitwise AND operator (8) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

Ops: A. 022

B; () 29

C. ()19

D. 3 21

Reset

```
Q ea. What will be the output of the following pseudo code?
            Integer a,b,c
        2. Set a=1, b=2, c=10
            if((c+a+b)<(a+b+c))
        4.
                c=3+a
                if((c+a+b)>(b+c))
        5.
        6.
                    c=(a+a)+a
        7.
                Else
        8.
                     a=c+a
        9.
                End if
                c=(3+3)+a
       10.
       11. Else
       12.
               c~(a+b)+a
       13.
                if((a-b)<(b-a))
       14.
                     C=7+c
       15.
                Else
       15.
                     c-b+a
       17.
                End if
       18. End if
            Print a+b+c
       19.
Ops: A. 015
     B. @ 14
     € ○25
     D. O5
     Reset
```

Q 10. What will be the output of the following pseudo code?

Reset

Q os. What will be the output of the following pseudo code for a=1, b=0?

```
1.
   Integer funn(Integer a, Integer b)
2.
        if((28b)>(b-2) 88 (a-b)>(b8a))
3.
4.
             b-b+3
5.
             b-a+3
             a=(b+3)+b
6.
 7.
             return funn(a,a)+a
В.
         End if
 9.
         a-a+1
10.
         return b-a
```

Note- &&; Logical AND - The logical AND operator (&&) returns the Boolean value true(or 1) if both operands are true and return false (or 0) otherwise.

6: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

Ops: A. 012

B. O-8

C. 10

D. O23

Reset

Q 09. What will be the

```
1.
2.
   Integer funn(Integer a, Integer b)
        if((b^a)<(3-b) && (b&a)<(a-b))
3.
4.
            a-a+3
5.
            a-b+3
6.
            b-a+2
7.
            return funn(a,b) a
8.
        End if
9,
        return a-1
```

Note- &&: Logical AND - The logical AND operator (&&) returns the Boolean value true(or 1) if both operands are true and return false (or 0) otherwise.

&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

A 05 1

B. O-16

C 014

D. 1

Reset

8. What will be the output of the following pseudo code for a=1, b=0?

1.

Integer funn(Integer a, Integer h)

## Reset

Q 66. What will be the output of the following pseudo code for a=1, b=0?

```
1.
   Integer funn(Integer a, Integer b)
        if((3^b)>(b+a) 88 (28b)>(b-2))
3.
4.
            a=2+1+b
5.
            a-a+2
            return funn(b+2,b+1)
6.
7.
        End if
8.
        b-b+1
9.
        return b-a+1
```

Note: 88: Logical AND: The logical AND operator (88) returns the Boolean value true(or 1) if both operands are true and return false (or 0) otherwise.

& bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

 $^{\circ}$  is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.

Ops: A. . 1

B. 0-4

C 05

D. 020

Reset

Q 07. What will be the output of the following pseudo code for a=2 h=02

Q 04. What will be the output of the following pseudo code?

```
1.
   Integer p,q,r

 Set p=3, q=6, r≈6

 3. r-(5+1)+r
   if(7<p & (q+r)<(r-q))
 5.
        q=(p+3)+q
 6.
        p=(q+q)+r
 7.
    Else
 8.
        q=q+r
                     D
 9.
        p-q&r
10. End if
11. p=(5+6)^r
12. Print p+q+r
```

Note- &&: Logical AND - The logical AND operator (&&) returns the Boolean value true(or 1) if both operands are true and

&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result Ops: A @ 30

B. 026

C. C)41

D. Q35

Reset

## Q 05. What will be the output of the following pseudo code?

```
1. Integer pp,qq,rr
```

Note- &&: Logical AND - The logical AND operator (&&) returns the Boolean value true(or 1) if both operands are true and

&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to

Ops: A 016

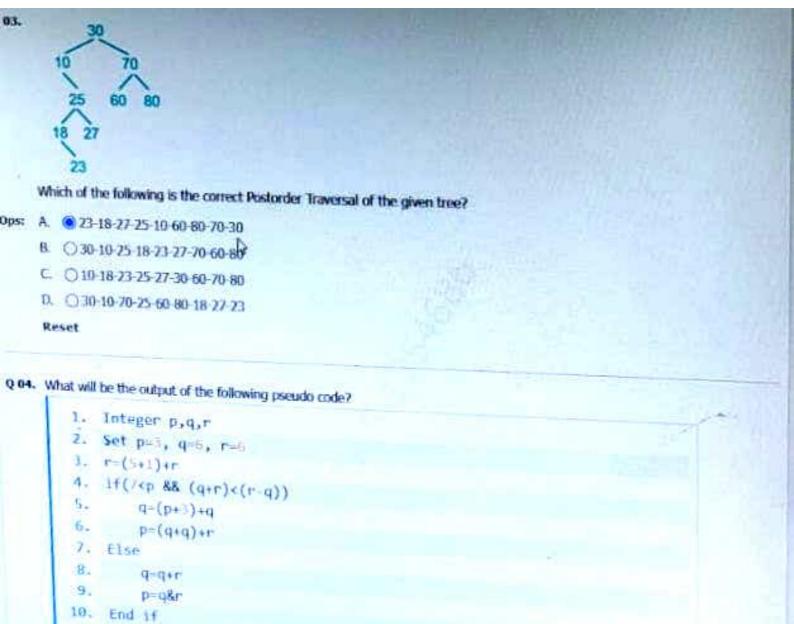
B. 032

C 022

D. 19

Reset

 $\mathbf{Q}$  06. What will be the output of the following pseudo code for a=1, b=0?



11. p=(5+6)\*r 12. Print p+q+r

## 01. Pseudo Code

q or. If we draw a binary search tree by inserting the given numbers from left to right, then what would be the height of the

48, 36, 12, 9, 11

Ops: A. 06

B. ()2

C 03

D. @4

Reset

Q 62. Solve the given postfix expression,

32+5/4+

Opst A. O2

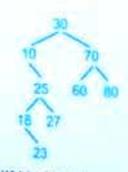
B. O3

C. 05

D. (08)

Reset

Q 03.



Which of the following is the correct Postorder Traversal of the given tree?