

**Q1.** What will be the output of the following pseudocode?

```
Integer i
Set i = 3
do
print i + 3
i = i - 1
while(i not equals 0)
end while
```

[Note: A do-while loop is a control flow statement that executes a block of code at least once, and then repeatedly executes the given Boolean condition at the end of the block]

**A)** 6 6 6

**B)** 6 5 6

**C)** 5 5 5

**D)** 6 5 4

**Ans:** D

**2.** What would be the output of the following pseudocode?

```
Integer a
String str1
Set str1 = "goose"
a = stringLength(str1)
Print (a ^ 1)
```

[Note- string-length(): string-length() function counts the number of characters in a given string and return the integer value.

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its equal 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) 0
- B) 4
- C) 5
- D) 3

**Ans: B**

**Q3.** What would be the output of the following pseudocode?

```
Integer a, b, c
Set a = 8, b = 51, c = 2
c = (a ^ c) ^ (a)
b = b mod 4
Print a + b + c
```

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

^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its equal 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. 13
- B. 17

- C. 26
- D. 16

**Ans: A**

**Q4.** What would be the output of the following pseudocode?

```
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
end for
```

- A. 2
- B. 9
- C. 7
- D. 8

**Ans: B**

**Q5.**What will be the output of the following pseudocode?

```
Integer a, b
Set a = 15, b = 7
a = a mod (a - 3)
b = b mod (b - 3)
a = a mod 1
b = b mod 1
Print a + b
```

- A) 15
- B) 7
- C) 2
- D) 0

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

**Answer: 0**

**Q6.** What will be the output of the following pseudocode?

```
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
```

[Note-&&: Logical AND - The logical AND operator (&&) returns the Boolean value true(or 1) if both operands--. If (x) gets executed if the value if(), i.e., x is not zero]

- A) 2
- B) 13
- C) 26
- D) 5

**Ans: B**

**Q13.** What will be the output of the following pseudocode?

```
Integer arr[]={10, 20, 30, 40, 5}  
Integer a, s  
Set s = 0  
Set a = arr[1] + arr[2]  
Print a
```

**A) 25**

**B) 5**

**C) 50**

**D) 40**

**Ans: C**

**Q7.** What will be the output of the following pseudocode?

```
Integer a, b, c  
Set b = 2, a = 2  
c = a ^ b  
Print c
```

[Note- ^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its-- other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0]

**A) 6**

**B) 4**

**C) 0**

**D) 2**

**Ans: C**

**Q8.** What will be the output of the following pseudocode?

```
Integer arr[]={10, 20, 30, 40, 5}  
Integer a, s  
Set s = 0  
Set a = arr[1] + arr[2]  
Print a
```

**A) 25**

**B) 5**

**C) 50**

**D) 40**

**Ans: C**

**Q9.** Which of the following series will be printed by 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) 1 3 6 10 15**

**B) 1 2 3 4 5**

**C) 2 4 6 8 10**

**D) 1 1 2 3 5**

**Ans: A**

Q10. Find the output of the following pseudo-code:

```
Integer x,y,z;  
x=0  
y=1  
x = y = z = 8  
Print x
```

**Options:**

**A) 0**

**B) 8**

**C) 1**

**D) None of the above**

**Correct Answer: Option B**

Q11. Find the output of the following pseudo-code:

```
Integer value, n  
Set value = 1, n = 45  
while(value less than equal to n)  
value = value << 1  
end loop  
Print value
```

**Options:**

**A) 64**

**B) 32**

**C) 45**

**D) None of the above**

**Correct Answer: Option A**

Q12. Find the output of the following pseudo-code:

```
Integer c, d
Set c = 15, d = 12
d = c - 1
Print c //line
c = d + (c - 2)
if(c < 40)
    Goto line
end if
```

**Options:**

- A) 14 26 38
- B) 27 39
- C) 15 27 39
- D) None of the above

**Correct Answer: Option C**

Q13. Find the output of the following pseudo-code if x= 4 and y=5:

```
Integer fun(int x, int y)
    if(x > 1)
        fun(x - 2, y + 2)
    end if
    print y
End function fun()
```

**Options:**

- A) 4 5 6



- B) 7 6 5**
- C) 9 7 5**
- D) None of the above**

**Correct Answer: Option C**

Q14. How many times will the print statement be executed:

```
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
```

**Options:**

- A) 2**
- B) 3**
- C) 1**
- D) 0**

**Correct Answer: Option B**

Q15. What will be the output if the following pseudocode if a=10 and b=6:

```
Integer func (Integer a, Integer b)
Integer temp
while(b)
```

```
temp = a MOD b
a = b
b = temp
end while
return a
End function func()
```

**Options:**

- A) 2**
- B) 4**
- C) 3**
- D) 1**

**Correct Answer: Option A**

Q16. What will be the output of the following pseudo-code?

```
Integer x, y, z
Set x=24, y=8
x = x/y
z = y<<x
Print z
```

[Note: << is left shift operator, it takes two numbers, left shifts the bits of the first operand, the second operand decodes the number of ...]

**Options:**

- A) 1**
- B) 8**
- C) 0**
- D) 64**

**Ans: D**

Q17. What will be the output of the following pseudocode?

```
Integer x, y, z, a
Set x = 2, y = 1, z = 5
a = (x AND y) OR (z + 1)
Print a
```

**Options:**

**A) 5**

**B) 3**

**C) 2**

**D) 1**

**Ans: D**

Q18. What will be the output of the following pseudocode?

```
Integer a=5, b=4, c=3
a = b + c
c = a - b
c = c + a
c = b + c
b = b + c
Print a, b, c
```

**Options:**

**A) 7 14 7**

**B) 7 14 10**

**C) 7 8 14**

**D) 7 18 14**

**Correct answer: Option D**

Q19. What will be the output of the following pseudocode?

```
Integer a, b, c, d
    Set b = 18, c = 12
    a = b - c
    for (each c from 1 to a - 1)
        b = b + c + 12
        b = b/5
        d = b + a
    end for
    c = a + b + c
    Print a b c
```

**Options:**

- A) 5 3 9
- B) 6 14 17
- C) 6 4 14
- D) 6 4 16

**Correct Answer: Option D**

**Q20.** How many times will the print statement be executed:

```
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
```

Options:

- A) 2
- B) 3
- C) 1
- D) 0

Correct Answer: **Option B**

**Q21. What will be the output of the following pseudocode?**

```
Integer x, y, z, a  
  
Set x = 2, y = 1, z = 5  
  
a = (x AND y) OR (z + 1)  
  
Print a
```

Options:

- A) 5

B) 3

C) 2

D) 1

Correct Answer: Option D

Q22. Find the output of the following pseudo-code:

Integer c, d

Set c = 15, d = 12

d = c – 1

Print c //line

c = d + (c – 2)

if(c <40)

    Goto line

end if

Options:

A) 14 26 38

B) 27 39

C) 15 27 39

D) None of the above

Correct Answer: Option C

Q23 . Find the output of the following pseudo-code:

Integer value, n

Set value = 1, n = 45

while(value less than equal to n)

value = value &lt;&lt; 1

end loop

Print value

Options:

A) 64

B) 32

C) 45

D) None of the above

Correct Answer: Option A

Q24. What will be the output if the following pseudocode

if a=10 and b=6:

Integer func (Integer a, Integer b)

Integer temp

while(b)

```
temp = a MOD b
```

```
a = b
```

```
b = temp
```

```
end while
```

```
return a
```

```
End function func()
```

Options:

A) 2

B) 4

C) 3

D) 1

Correct Answer: Option A

Q25. What will be the output of the following C code?

```
#include<stdio.h>
```

```
void main()
```

```
{
```



```
long double a;  
  
signed char b;  
  
int arr[sizeof(!a+b)];  
  
printf("&quot;%d&quot;;, sizeof(arr));  
  
}
```

[Consider the size of a is 16 and size of b is 1]

A. 16

B. 0

C. 6

D. 4

Correct ANS : A

Q26. 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

sum=sum+(i\*i)

End loop

**Print Sum**

**A.204**

**B.140**

**C.8**

**D.64**

**Correct Ans: B**

**Q27. 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**

**Print Thankyou**

**A.Fine**

**B.Nothing will be printed**

**C.Thankyou**

**D.Fine Thankyou**

**Corrct Ans: A**

**Q28. What will be the output of the following pseudocode?**

**Integer x, y, z**

**x=10, y=12, z=12**

**z=(x+y)/4 //Line 3**

**If(z is equal to 12)**

**Print Successful**

**Else**

**Print Unsuccessful**

**A.Error at line 3**

**B.Logical error**

**C.Unsuccessful**

**D.successful**

**Correct Ans: C**

**Q29. For what values does the following pseudocode print a?**

Integer a,b,c

If(a>b OR a>c)

Print a

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

Print b

- A. a=5,b=3,c=6
- B. a=5,b=4,c=3
- C. a=3,b=4,c=5
- D. All the mentioned options

Correct Ans: B

Q30. What will be the output of the following pseudocode?

Integer i, f, num

Set f=1, num=8

Repeat for i=1 to num

f=f\*i

End loop

Print f

- A. 0
- B. 40320
- C. 1
- D. 8

Correct Ans: B

Q31. For what values does the following pseudocode print Q?

Integer a, b, c

If(a+c>b)

    If(b<c)

        Print P

    Else

        Print Q

Else

    Print R

- A. a = 5, b = 7, c = 1
- B. a = 5, b = 3, c = 7
- C. a = 4, b = 8, c = 4
- D. a = 5, b = 7, c = 3

Correct Ans: D

**Q32. 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**

- A. 3 9 23 70**
- B. 3 10 27 71**
- C. 3 10 27 70**
- D. 3 7 10**

Correct Ans: C

Q33. What will be the output of the following pseudocode?

Integer num,x,y,count

Set num=85,count=0

x=num<<1

y=y+1

While((y/2) not equal 0)

    if(y mod 2 not equal 0)

        count=count+1

    Else

        y=y/2

    end if

End while

If(count)

    Print 0

    Print y

Else

    Print 1

    Print x

end if

If(count)

    Print 0

    Print y

Else

Print 1

Print x

end if

Note: 1. ^ : Bitwise XOR operator

2. << : Left-shift operator

- A. 0 170
- B. 1 170
- C. 1 125
- D. None of the mentioned options

Ans: B

Q34. What will be the output of the following pseudocode?

Integer 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

- A. 3 2 1 0 -3
- B. 3 -3 -8 -15
- C. -6 -13 -19 -24 -28
- D. 3 -3 -8 -12 -15

Ans: D

Q35. What will be the output of the following pseudocode?

Integer i,j,sum,n

Set sum=0,n=7

Repeat for i=1 to n

    Repeat for j=1 to i-1

        sum=sum+j

    End loop

End loop

Print sum

- A. 84
- B. 147
- C. 35
- D. 56

Ans: D

Q36. What will be the output of the following pseudocode

Integer x,y,z,a

Set x=2,y=1,z=5

a=(x AND y)OR(z+1)

Print a

- A. 2
- B. 3
- C. 5
- D. 1

Ans: D



**Q37. What will be the output of the following pseudocode**

Integer a,n,sum,q,r

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

Set q=a

While(q mod 10 not equals 0)

    n=n+1

    q=q/10

End while

Print n

While a greater than 0

    r=a mod 10

    sum=sum+r

    a=a/power(10,n-1)

End While

Print sum

- A. 6 4
- B. 3 2
- C. 6 5
- D. 3 4

**Ans: D**

**Q38. What will be the output of the following pseudocode**

Integer x

Set x=259

If(x equals 0)

Print 0

Otherwise if (x mod 9 equals 0)

Print 9

Otherwise

Print x mod 9

End if

- A. 7
- B. 8
- C. None of the mentioned
- D. 16

Ans: A

Q39. What will be the output of the following pseudocode

Integer a,b,c,d

Set a=8,b=7,c=4,d=6

a=b+c-d

b=a+d-c

d=a+b+d

Print d

- A. 18
- B. 3
- C. 8
- D. 12

Ans: A

Q40. What will be the output of the following pseudocode?

Integer a, b, c, d

Set b = 18, c = 12

a = b - c

for(each c from 1 to a – 1)

    b = b + c + 12

    b = b / 5

    d = b + a

end for

c = a + b + c

Print a b c

- A. 7 5 13
- B. 5 3 11
- C. 4 12 6
- D. 6 4 12

Ans:D

Q41. For which of the following conditions “B” will be printed ?

if ( x > z )

if ( z < y )

```

        print A
    else
        print B
    end if
Else if (y > z )
    print C
else
    Print D
end if
end if

```

- A.  $z > x$
- B.  $x > z > y$
- C.  $x > y > z$
- D.  $y > z$

Ans: B

Q42. Consider the following pseudocode for which of the following inputs, the pseudocode will

print Successful

1. num=6
2. num=4
3. num=7

Integer num,t,f

t=num

f=0

While(t not equals 1)

If( $t \bmod 2$  not equals 0)

f=1

Jump out of the loop

End if

$t=t/2$

End While

If (f equals 0)

Print "Successful"

Else

Print "Unsuccessful"

End if

- A. Only 2
- B. Only 1 and 2
- C. Only 1 and 3
- D. All 1,2,3

Ans: A

Q43. Integer a, i, b

Set a=0, i=0

For(each i from 0 to 4)

i=i+1

if i equals 3

Print Inside

Jump out of loop

End for

Print i

End

- A. 1
- B. Inside 3
- C. 4
- D. 2

Ans: B

Q44. In which of the following Pseudocode the loop will run maximum times

- A. Integer a,b=1,c

While (b<=3)

For(each a from 1 to 4)

End for

b=b+1

End While

- B. Integer a,b,c

For(each a from 1 to 5)

For(each b from 1 to 6) increment b by 2 in each loop

End for

End for

- C. The loop will run an equal number of times in each code
- D. Integer a,b,c

For(each a from 1 to 18)

End for

Ans: D

**Q45. What will be the output of the following pseudocode**

**Declare x,y,z,i**

**Set x=4, y=7**

**$z=(x+y)-4$**

**For i=0 to z**

**$x=x-i$**

**$z=z+x$**

**End for**

**Print z**

- A. 7**
- B. 4**
- C. -13**
- D. -4**

**Ans: D**

**Q46. What will be the output of the following pseudocode**

**Integer p, q, r, a**

**Set p=2, q=1, r=5**

**$a=(p \text{ AND } q) \text{ OR } (r+1)$**

**Print a**

- A. 2**
- B. 3**
- C. 5**
- D. 1**

**Ans: D**

Q47. What will be the output of the following pseudocode for input a = 30, b = 60, c = 90?

Integer a, b, c, sum

Read a, b, c.

Set sum = a + b + c.

if ((sum EQUALS 180) and (a NOT EQUALS 0) and (b NOT EQUALS 0) and (c NOT EQUALS 0))

    print "Success"

Otherwise

    print "Fail"

End if

- A. Fail
- B. None of the mentioned options
- C. Error in the logic of the pseudocode
- D. Success

Ans: D

Q48. What will be the output of the following pseudocode?

Integer a = 2, b = 6, C, i

C = (a + b) – 3

for(each i from 0 to C - 1)

    a = a-i

    C = C+a

end for

Print c



- A. -3
- B. 0
- C. 3
- D. 2

Ans: C

Q49. What will be the output of the following pseudocode?

Integer rows = 4, k, 1, number = 1

for(each k = 1 to rows)

    for(each l = 1 to k)

        Print number

        Print space

        number=number+

    end for

    Move to next line

end for

A. 1

2 3

4 5 6

7 8 9 10

B. 1 2 3 4

1 2 3

1 2

1

C. 1

1 1

1 2 1

1 3 3 1

Ans: A

Q50. What will be the output of the following pseudocode?

Integer a, n, sum, q, r

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

Set q = a

while ( q mod 10 NOT EQUALS 0)

n = n + 1

q = / 10

End while

Print n

while (a greater than 0)

r= a mod 10

sum sum +r

a = a / power(10, n-1)

End while

Print sum

A. 6 4

B. 3 2

C. 6 5

D. 3 4

Ans: D

Q51. Consider the pseudocode mentioned bellow. How many print statements will be executed

in the 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

A.3

B.0

C.2

D.1

Ans: A

Q52. What will be the output of the following pseudocode for a=2?

```
Integer fun(Integer a)

    Integer x,y

    Set y=3

    for (each x from 0 to y-1)

        a=a+y

    end for

    return a

End function fun()
```

A. 4

B. 9

C. 12

D. 11

Ans: D

Q53. What will be the output of the following pseudocode

```
main()

    inc(); inc(); inc();

End main

Fun inc()

    static int x;

    printf("%d",++x);
```

- A. It will print 123
- B. It will print 3 consecutive, but unpredictable numbers
- C. It will print 012
- D. It will print 111

Ans: A

Q54. What will be the output of the following pseudocode

```
main() {  
  
    Integer a=10  
  
    If(printf("%d",a>=10)-10)  
  
        For(;;)  
  
            break;  
  
    Else;  
  
    End main
```

- A. Infinite loop
- B. Compilation Error
- C. 1
- D. 0

Ans: C

Q55. What will be the output of the following pseudocode?

```
Main  
  
while(printf("%d",printf("az")))  
  
    printf("by");  
  
End main
```

- A. None of these
- B. It gives syntax error
- C. It will print azbyazbyazbyazby

D. It will print azbybyby...

Ans: A

Q56. What will be the output of the following pseudocode?

Integer a=0,i=0,b

For i from 0 to 4

    increment a

    if i is equal to 3

        print "Hello world"

    break;

end for

print a

- A. 4
- B. 2
- C. 1
- D. Hello world

Ans: C