Quiz-2

```
Time: 00:00:10
Question 1
Q1-below is a pseudo code
 Set x = 1
 Set n = 200
 while(n>100):
    x=x-n
    n=n-5
    end while
 Write x
What is the output of the above pseudocode?
                                                          O -3048
  O -3049
  O -3047
                                                          O -3059
       -3049
```

Ans:

```
x = 1
n = 200
while(n>100):
    x=x-n
    n=n-5
print(x)
```

In the above code, we have used the Python programming language. You can solve it using any programing language.

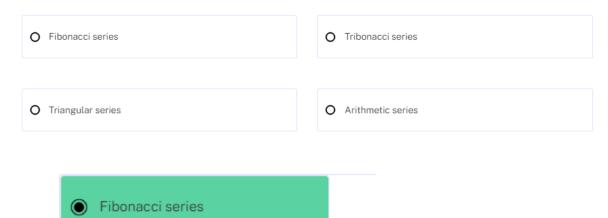
Here the value of x gets decremented until the number n is greater than 100

Question 2 Time: 00:00:03

Q2-Below is a pseudo-code

```
Set x = 0;
Set y = 1;
Set n = 0
print(0)
print(1)
while(n<10-2):
    Set z=x+y
    Swap x, y with y, z
    Write z
    Increment of n by 1</pre>
```

In which series is the output



Ans:

Question 3 Time: 00:00:28

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

```
Integer x,y,z
Set x=3
Set y=90
while(y is greater than 0);
    y=y/3
    x=x+6
    c=x+y
    while(c is greater than 30):
        if(c mod 3 is equals to 0):
            write x
        else:
            write y
        c=c/5
```

O 9,33

O 9,36,9

9 33 6

Ans:

This pseudocode performs some simple mathematical operations until the value of y is greater than 0 and c is greater than 30 and prints the value of x, y and z.

below is the Python code for this pseudo code:

```
x=3
y=90
while(y>0):
    y=y//3
    x=x+6
    c=x+y
    while(c>30):
        if(c % 3 == 0):
            print(x)
        else:
            print (y)
        c=c//5
print(c)
```

Question 4 Time: 00:00:03

What will be the output of the following pseudocode?

```
int main()
{
  integer num;
  for(num equals to 80; num!=0; num++)
   Write num++
  getchar();
  return 0;
}
```

O None of the mentioned options	O Error
O 140	O Infinite loop
Infinite loop	

Ans:

This code will go to infinite loop as the value of n will never be 0 and condition num!= 0 will never be false

```
U Time: 00:00:24
     Question 5
     Consider the following given algorithm and identify the task performed by this
      int main()
         int n = 1;
           printf("%d", n);
           if (n > 15)
             continue;
         } while (0);
         return 0;
       O 15
                                                                  0 1
       O 123456789101112131415
                                                                  O Run Time Error
Ans:
```

The value of n will get printed only once as the loop will read the while(false) statement after the one iteration

Question 6 Time: 00:00:03

What will be the output of the following pseudocode?

```
#include <stdio.h>
using namespace std;
int main()
{
    printf("%d", 'X' > 'x');
    return 0;
}
```

O 0	O X
O ×	O 1



Ans:

Ascii value of X is not greater than x. So, the logical output will be false hence O will be printed.

U Time: 00:00:04 Question 7

What will be the output of the following pseudocode?

```
#include <stdio.h>
using namespace std;
int main()
   for (int x = 10; x >= 0; x--) {
      int z = x & (x >> 1);
     if (z)
        printf("%d ", x);
```

O 127

O 1098

O 763

O 963



```
& represents bitwise and
>> represents right shift
(x>>1) can be written as x/2
in the first iteration

x=10
z=10&5=0
hence if statement will not be executed
if you run all the iterations then you can find that

z=3 [at x=7]
z=2 [at x=6]
z=1 [at x=3]
hence if statement will run in these cases only
```

Question 8 Time: 00:00:03

What will be the output of the following pseudocode?

So, 7 6 3 will be printed

```
#include <stdio.h>
int main()
{
    int x = 10, y = 20, z = 30;
    z = x = y;
    printf("%d", z);
    return 0;
}
```

O 10	O 30
O Error	O 20



Ans:

Assigning the value of y to x and z

Question 9 Time: 00:00:

What will be the output of the following pseudocode?

```
#include <stdio.h>
int main()
{
    int x = 210;
    int y = 0;
    ;
    ;
    printf("%d", y);
    ;
    return 0;
}
```

O 0	O 210
O Run Time Error	O Compile Time Error
O	

No error it will print 0 as the value of y as y is initialized to 0

Question 10



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

```
#include <stdio.h>
void main()
{
   int a = 1.0, b = 2, c = 3.12;
   char d = 0.0;
   if (a, b, c, d)
   {
      printf("KHUDSOLVEKRO");
   }
}
```

O No output	O Error
O KHUDSOLVEKRO	O 1.0
No output	

Here it statement will check the last parameter only which is d. As d=0 the print statement will not get executed.

Pseudocode pountion Decempocage, outbit -~=200,195, ... 105 Set X=1 (In = a+(n-1)a) Set n = 200 while (n>100) (S= 7/2 (a+1)) X:- X-2 2-2-5 end while usaite x Colution'-1) Init x=1, n=200 1 Loope (n>100): iten1: x=1-200=-199, n=200-5-195 205 1tenz: X--199-195=-394, n-195-5=190 305 Contine until n2=100: 100p run for n = 200, 195, 190, ... 105 Final Value of x afterall iter, -3049, 2) series identification'while(n/10-2) Box X=Kox

M T W T F S S Sum x, ywithy, 2 50112W Treast or by 1 Andre : Oode paint o, 12 generate new terms by surking two x by togets releabled Elbonacei Geriel (3) Pseudocodo outputi integer x, y, z Set y=90 ushire (4 >0). Y = Y 13 C=X+Y ushile(c>30). if (C.mod3c=0). X 9 firew Marten C=C15 1.191te C 70 Nesled 100P (C730): -39mod 3==0 -) Ps -3915-7-100 ·39mod3==0-) Paint(x=9) · C=3915 - 7 (100PEXISTS)

M T W T F S S · paint C=7 5) Se Condilexation; y-3013-10, x-9+6-15-C=15+ ollof 2i oble Paint C-25 Final output: 9,7,25 for (num=89; num!=8; num++)
write num++; Soit II never equal 8, cause infinite loop 5) 100 p Behaviour Jut 2-1,

go & bount (cologn) 18 (n->15) continue; 3 while (0); 1 legation, painting 1. Les Dut Ruty

Date:

Description of the second seco ·Porint (えいスカットズンン(メッジ); Analysie (x) > (x) is parse CASCII volume ancequal) so output iso (7) Bitwise operation output for (intx = 40) x > = 0; x - -){
int z = x & (x >> 1);
if (z) print (""10d") x); Analysis: - Paint x where x & (x12) is non-zero Valid output 5 7 , 6, 3. (8) Assignment output! int x=10; y=20, z=80; z=x=y; printf("00d",z); Analysis: X= x assigns 20 Lox, then z=x
assigns 20 to z. 19 Variable Initializations int x=210; paint & Cholody, VJ;

