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.

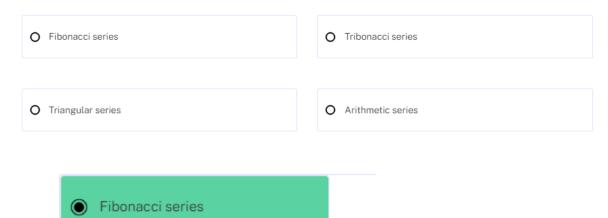
Here the value of x gets decremented until the number n is greater than 100

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 Quiz 2 I X=1; n=200 while (195>100)~ while (no 100) V X= 1- 200 N= 1-200-195 h = 200-5 = 195 :. X= 1-200-195-190-185------105 $= 1 + \left(\frac{20}{2} \left(105 + 200\right)\right),$ = -3049 Ans: -3049 2 1=0; y21; n=0; while (n < 8) 0,1,1,2,3,5 = 2 x +4 swaw (x-y) (y-2) Print 2 Ans: Fibonacci Series 3) 11 12 = 3 6 2 9 0 Output = 9.33.6. 1st it erection? 2nd: while (4)0) 4 $y = \frac{90}{3} = 30$ $y_2 = \frac{30}{2} = 10$ 1 2 3 + 6 2 9 从2 9+6 215 c = 39 (11° e = 25) . while (c>30) while (e>30) X lf (c %3220) € print (9) e= 39/5 = 7 while (c>30) X while (-4>0) y 2 10 2 3 4th: 8th: while (4)0) ~ x=15+6=21 while (4>0) V 420 will c= 24 421 while (c)30) X N = 33 N = 27 www. (c)30)~ > print (e) 6 while (e>30)X

for (num > 80; num! 20; num+t) (, 80,81,82. Am : infinite loop 5) n = 1 iteration -1 Print (1) N 20 計 [n>15/ X while (0) X 6) printf ("%d", 'x') ', return o (n) 2120 Ans : 0 W210 K28 X2 1001 0001 +X N= 10 10 163720100 (x>1)=01 01 0100 2 20 0.000 0000 7=00000 if (2) X H(2) X î+(3) V print(7) 125 124 1226 N23 122 K21 x20101 0100 1100 22 0110 0010 0001 0010 0010 0001 NX12 0010 0001 12=0000 22 1 0000. = 2 220 000 print 720000 print (6) Ans:

Ans: No output