United International University
B.Sc. in Data Science
DS 1501: Programming for Data Science
Class Test 01   Marks: 20

Student ID: Name:

1. Identify and correct the syntax errors in the following code: [3]

```python
x = 5
y = 10
if x=0 and x => y
    print("x is an 'even number')
else if x%2==1:
    Print(x,"is not an even number")
```

2. Find the output of the following code: [2]

```python
x = 20
y = x//5+2**(1**2)
print(x % y + 5 + x * y // (4 ** 2)**2**1)
```

Output:

3. Is it a correct code? If it yes, what will be the output if number=20? If it is not, correct the code: [2]

```python
number = int(input("Enter a number: "))
if number > 10:
    print("Number is greater than 10")
if number<=10:
    print("Number is less than or equal to
10")
elif number < 100:
    print("Number is less than 100")
```

4. Which one is not a correct variable name and why? [2]
   a) print

   b) my2Var

   c) my-Var

   d) my.Var

5. Write the output of the code for the given inputs: [8]

 a) 35   b) 60   c)   70 d) 103

```python
number = int(input("Enter a number between 1 and 100: "))
if 1 <= number <= 100:
    if number % 2 == 0:
        print("Even", end=" ")
    else:
        print("Odd", end=" ")
    if number % 10 == 0:
        print("and divisible by 10", end=" ")
    else:
        print("but not divisible by 10", end=" ")
if number>100:
    print("Number is not between 1 and 100", end=" ")

print("Number.")
```

 6. Write a code that will take integer number from a user and find the last digit of the number. If the last digit of
the   number   is   even   than   it   will   print   "Even"   and   if   it's   odd   number,   it   will   print   "Odd".   [3]
  Sample Input: 124
  Output: Even