**TRONIX TECHNOLOGIES**

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**PYTHON TEST**

Date: 23-07-2025 batch: 8am

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**1. Which of the following is the correct syntax for an if statement in Python?**

a) if condition then:

b) if condition:

c) if condition do:

d) if: condition

**2. What will the following code print?**

x = 10

if x > 5:

print("Greater")

else:

print("Smaller")

a) Greater b) Smaller c) Error d) None of the above

**3. How many times will the following code print "Hello"?**

i = 0

while i < 3:

print("Hello")

i += 1

a) 0 times b) 1 time c) 2 times d) 3 times

**4. What will be the output of the following code?**

for i in range(5, 1, -1):

print(i)

a) 5 4 3 2 b) 5 4 3 2 1 c) 4 3 2 1 d) 5 4 3

**5. Which of the following is the correct syntax to create an infinite while loop?**

a) while True: b) while(1):

c) while 1 == 1: d) All of the above

**6. Write a Python program using an if statement**

**that checks whether a number is positive, negative, or zero.**

**7. Write a Python program that prints all even numbers**

**between 1 and 20 using a for loop.**

**8. Write a Python program that sums all numbers**

**between 1 and 50 using a while loop and prints the result.**

**9. Write a program that prints the factorial of a number using a for loop.**

**(Use input() to take the number from the user.)**

**10. What will be the output of the following code?**

x = 0

while x < 5:

if x % 2 == 0:

print("Even")

else:

print("Odd")

x += 1

**11. Write a Python program using a for loop to print the following pattern:**

1

12

123

1234

12345

**12. Write a Python program using a while loop**

**that prints all prime numbers between 1 and 100.**

**13. Write a Python program to calculate the sum of the digits of a number**

**using a while loop.**

For example, for the number 123, the program should return 1 + 2 + 3 = 6.

**14. Write a Python program that prints the Fibonacci sequence up to n terms using a while loop, where n is given by the user.**

**15. Create a program that asks the user to enter an integer, then uses a while loop to reverse the digits of the number. For example, if the input is 1234, the output should be 4321.**

All the best

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