

**Class XII**  
**Computer Science**  
**Monday Test (April 2026)**

Time: 45 Minutes

Max Marks: 20

**Section A: Multiple Choice Questions (1 Mark Each)**

**Q1.** What will be the value of the following expression?

```
print(12 + 3 ** 2 // 2)
```

- A) 16                      B) 16.5                      C) 7.5                      D) 15

**Q2.** Which of the following is an example of explicit type casting?

- A) a = 5 + 2.0              B) a = int("10")              C) a = 10 / 2              D) a = "Hello" + "World"

**Q3.** Which statement is used to skip the rest of the code inside a loop for the current iteration and move to the next iteration?

- A) break                      B) pass                      C) continue                      D) exit

**Q4.** Which of the following data types is immutable?

- A) List                      B) Dictionary                      C) Set                      D) Tuple

**Q5.** What will be the value of the following expression?

```
Result=15.0 // 4 + (8 + 2) * 3 ** 2 - 12
```

- A) 891.0                      B) 891                      C) 81                      D) 81.0

**Section B**

**Q6.** Write the output of the following Python program:

1

```
for x in range(10, 30, 5):
```

```
    if x % 3 == 0:
```

```
        print(x * 2)
```

```
    else:
```

```
        print(x + 5)
```

**Q7.** Rewrite the following Python program after removing the syntax error(s) if any:

2

```
num = input("Enter a number: ")
```

```
if num > 0
```

```
print("Positive number")
```

```
else
```

```
    print("Not positive number")
```

**Q8.** Differentiate between break and continue statements. Explain with the help of a small code snippet for each, showing how the loop behaves differently when these statements are encountered.

4

**Q9.** Answer the following:

2x2= 4

(a) Define Mutable and Immutable data types.

(b) Categorize the following into Mutable or Immutable:

String , List , Integer, Dictionary,

**Q10.** Rewrite the following for loop code using a while loop so that it produces the exact same output:

4

```
for x in range(10, 30, 5):
```

```
    if x % 3 == 0:
```

```
        print(x * 2)
```

```
    else:
```

```
        print(x + 5)
```

**OR**

Following Python program is made to count the number of vowels present in the string "Line" . Fill the blank statements to get the expected output of the program.

```
Line = "Alakshya public school"
```

```
c = _____
```

```
for ch in _____:
```

```
    if ch _____ "aeiouAEIOU":
```

```
        c += 1
```

```
print("No. of vowels:", _____ )
```