

Test I: Multiple Choice - Python (10 points)

1. What is Python?
 - A) A type of snake
 - B) A high-level programming language*
 - C) A popular type of coffee
 - D) A type of programming puzzle
2. All keywords in Python are in _____.
 - A) Capitalized
 - B) Lower case
 - C) Upper Case
 - D) None of the mentioned
3. Which of the following character is used to give single-line comments in Python?
 - A) //
 - B) #
 - C) !
 - D) /*
4. Which of the following is the correct way to print "Hello, World!" in Python?
 - A) print("Hello, World!")
 - B) echo "Hello, World!"
 - C) System.out.print("Hello, World!")
 - D) console.log("Hello, World!")
5. What is the output of "Python".lower()?
 - A) PYTHON
 - B) python
 - C) PythoN
 - D) Error
6. Which operator is used for exponentiation?
 - A) ^
 - B) *
 - C) !
 - D) **
7. What is the output of $5 // 2$?
 - A) 2.5
 - B) 2.0
 - C) 2
 - D) 3
8. Which of the following data types used for decimal number in Python?
 - A) string
 - B) bool
 - C) int
 - D) float
9. Which of the following data types used for characters in Python?
 - A) string
 - B) char
 - C) double
 - D) float
10. What is the purpose of the input() function in Python?
 - A) To display text on the screen
 - B) To perform mathematical calculations
 - C) To get user input from the keyboard
 - D) To create a random number

Test II: Fill in the blanks

Code	Data type of Variable
<code>print (type("Redhill"))</code>	
<code>print (type("Fred"))</code>	
<code>print (type(198))</code>	
<code>print (type(88.9))</code>	
<code>print (type(False))</code>	
<code>print (type(True))</code>	

<i>Operators in Words</i>	<i>Operators in Symbols</i>
<i>A is greater than B</i>	
<i>A is less than B</i>	
<i>A is equal to B</i>	
<i>A is greater than or equal to B</i>	
<i>A is not equal to B</i>	

Test III: Program output (2 pts each)

1. `i = 1:`

`while True:`

`if i%3 == 0:`

`break`

`print(i)`

Which of the following is the correct output of this program?

A) 1 2 3

B) 3 2 1

C) 1 2

D) Invalid syntax

2. `a = 1`

`while True:`

`if a % 7 == 0:`

`break`

`print(a)`

`a += 1`

Which of the following is correct output of this program?

A) 1 2 3 4 5

B) 1 2 3 4 5 6

C) 1 2 3 4 5 6 7

D) Invalid syntax

3. i = 0

while i < 5:

 print(i)

 i += 1

if i == 3:

 break

else:

 print(0)

5. i = 0

while i < 3:

 print(i)

 i += 1

else:

 print(0)

What will be the output of this statement?

A) 0 1

B) 0 1 2

C) 0 1 2 0

D) 0 1 2 3

What will be the output of this statement?

A) 1 2 3

B) 0 1 2 3

C) 0 1 2

D) 3 2 1

4. x = 1

while True:

 if x % 5 == 0:

 break

 print(x)

 x += 1

What will be the output of this statement?

A) error

B) 2 1

C) 0 3 1

D) None of these

Test IV: Write the output by each statement (5pts each)

```
1. number = 1
while number <= 10:
    if number == 7:
        print("Found the number 7. Breaking out of the loop.")
        break
    print(number)
    number += 1
```

```
2. num = 2
while num <= 20:
    print(num)
    num += 2
```

```
3. n = 7
i = 1
while i <= 10:
    mul = i*n
    i = i + 1
    print(mul)
```