

Python Debugging Test

Each question contains a faulty code snippet. Identify the error and choose the correct solution from the given options.

Each question carries 2 marks. The total test is 40 marks.

Q1. What will be the output of the following code?

```
x = 10
y = "5"
print(x + y)
```

- A) 15
- B) "105"
- C) TypeError
- D) 10

Q2. Find the error in this loop:

```
for i in range(5):
print(i)
```

- A) IndentationError
- B) SyntaxError



- C) NameError
- D) No Error

Q3. What will this function return?

```
def add(x, y):
    return x + y
print(add(2))
```

- A) 2
- B) Error
- C) None
- D) "2y"

Q4. What will happen when you run this code?

```
x = [1, 2, 3]
print(x[3])
```

- A) 3
- B) IndexError
- C) None
- D) 1

Q5. What will this code print?

```
x = "Hello"
x[0] = "h"
print(x)
```



- A) hello
- B) "Hello"
- C) TypeError
- D) H

Q6. What's wrong with this code?

```
if 5 > 3:
print("Yes")
else:
print("No")
```

- A) SyntaxError
- B) IndentationError
- C) Logical Error
- D) No Error

Q7. What will be the output?

```
for i in range(3):
    if i == 2:
        break
    print(i)
```

- A) 0 1 2
- B) 0 1



- C) 12
- D) No Output

Q8. What error will this code produce?

```
print("Hello" + 5)
```

- A) TypeError
- B) ValueError
- C) No Error
- D) SyntaxError

Q9. What will happen?

```
x = 5
y = 0
print(x / y)
```

- A) 5
- B) 0
- C) ZeroDivisionError
- D) None

Q10. Find the bug in this function:

```
def greet():
print("Hello")
    print("World")
```



- A) SyntaxError
- B) IndentationError
- C) NameError
- D) No Error

Q11. What will be the output of this function?

```
def multiply(a, b):
    print(a * b)

result = multiply(3, 4)

print(result)
```

- A) 12
- B) None
- C) Error
- D) 12 None

Q12. What error will this code produce?

```
x = [10, 20, 30]
print(x[5])
```

- A) IndexError
- B) TypeError
- C) NameError
- D) No Error

Q13. What will this code output?

```
def test():
```



```
x = 10
print(x)
```

- A) 10
- B) None
- C) NameError
- D) No Error

Q14. Identify the error in this code:

```
x = (1, 2, 3)
x[1] = 5
```

- A) SyntaxError
- B) TypeError
- C) No Error
- D) IndexError

Q15. What will be the output of this loop?

```
for i in range(3):
    print(i)
    if i == 1:
        continue
    print("End")
```



- A) 0 End 1 End 2 End
- B) 0 End 1 2 End
- C) 0 End 1 2
- D) 0 End 1 End 2 End

Q16. What will be the output of this code?

```
def divide(a, b=2):
    return a / b
print(divide())
```

- A) 0
- B) TypeError
- C) None
- D) 1

Q17. What error will this code produce?

```
x = [1, 2, 3]
y = x
y.append(4)
print(x)
```

- A) [1, 2, 3]
- B) [1, 2, 3, 4]
- C) TypeError
- D) None

Q18. What will be the output of this code?

```
x = 5
def change():
```



```
x = x + 1
change()
print(x)
```

- A) 6
- B) 5
- C) UnboundLocalError
- D) None

Q19. What will happen when you run this code?

```
def repeat(word, times):
    return word * times
print(repeat(3, "hello"))
```

- A) hellohellohello
- B) "3hello"
- C) TypeError
- D) hello hello hello

Q20. What will happen when this function is executed?

```
def func(a, b=[]):
    b.append(a)
    return b
print(func(1))
print(func(2))
```

- A) [1] [2]
- B) [1] [1, 2]
- C) [1] []
- D) Error



#1.C / #2.A / #3.B / #4.B / 2 #5.C _ #6.B #7.A #8.A #9.C #10.A X #11.D _ #12.A #13.C #14.C \nearrow #15.B / 2 #16.C **/** #17.B __ #18.C ~ 2 #19.A × #20.B _

