

1. What is the output of the following code?

```
x = 10  
y = 20  
print(x + y)
```

- a) 10
- b) 20
- c) 30
- d) Error

Correct Answer: c) 30

2. Which of these variable names is valid in Python?

- a) 1variable
- b) variable_1
- c) variable-1
- d) variable 1

Correct Answer: b) variable_1

3. What does the following code output?

```
for i in range(3):  
    print(i)
```

- a) 0 1 2
- b) 1 2 3
- c) 0 1 2 3
- d) Error

Correct Answer: a) 0 1 2

4. What is the value of result in the following code?

```
a = 5  
b = 10  
result = a * b
```

- a) 10
- b) 15
- c) 50
- d) Error

Correct Answer: c) 50

5. Which of the following is used to create a function in Python?

- a) function
- b) def
- c) create
- d) func

Correct Answer: b) def

6. What is the output of this code?

```
x = 3
y = 2
if x > y:
    print('X is greater')
```

- a) X is greater
- b) Y is greater
- c) Error
- d) No output

Correct Answer: a) X is greater

7. What is the result of the following code?

```
x = 'Python'
print(len(x))
```

- a) 5
- b) 6
- c) 7
- d) Error

Correct Answer: b) 6

8. Which operator is used for division in Python?

- a) //
- b) /
- c) *
- d) %

Correct Answer: b) /

9. What does the following loop do?

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

- a) Prints 'Hello' 5 times
- b) Prints 'Hello' 4 times
- c) Prints 'Hello' 6 times
- d) Error

Correct Answer: a) Prints 'Hello' 5 times

10. What is the result of this expression?

```
x = 10 % 3  
print(x)
```

- a) 0
- b) 1
- c) 2
- d) Error

Correct Answer: b) 1

11. What keyword is used to check a condition in Python?

- a) while
- b) if
- c) for
- d) condition

Correct Answer: b) if

12. What is the output of this code?

```
x = 4  
y = 2  
z = x ** y  
print(z)
```

- a) 2
- b) 4
- c) 8
- d) 16

Correct Answer: d) 16

13. What is the correct way to call a function named 'my_function'?

- a) call my_function()
- b) my_function()
- c) run my_function()
- d) function my_function()

Correct Answer: b) my_function()

14. Which of these is NOT a valid data type in Python?

- a) int
- b) str
- c) float
- d) num

Correct Answer: d) num

15. What will this loop print?

```
for i in range(1, 4):  
    print(i)
```

- a) 1 2 3
- b) 1 2 3 4
- c) 0 1 2
- d) Error

Correct Answer: a) 1 2 3

16. What will this code output?

```
x = [1, 2, 3]  
y = x  
y[0] = 0  
print(x)
```

- a) [0, 2, 3]
- b) [1, 2, 3]
- c) [1, 2, 0]
- d) Error

Correct Answer: a) [0, 2, 3]

17. What is the result of this nested loop?

```
for i in range(3):  
    for j in range(2):  
        print(i, j)
```

- a) All combinations of i and j
- b) Only j values
- c) Only i values
- d) Error

Correct Answer: a) All combinations of i and j

18. What is the purpose of the break statement in Python loops?

- a) To skip the current iteration
- b) To exit the loop completely
- c) To terminate the program
- d) None of the above

Correct Answer: b) To exit the loop completely

19. What does this code output?

```
x = "123"  
y = int(x) + 1  
print(y)
```

- a) "1231"
- b) 124
- c) Error
- d) 1231

Correct Answer: b) 124

20. What will this function print?

```
def mystery(a, b=2):  
    return a ** b  
  
print(mystery(3))
```

- a) 6
- b) 9
- c) 8
- d) Error

Correct Answer: b) 9