

Multiple-Choice Questions:

1. What is the output of the following Python code?

```
```python
print("Hello" + "World")
```
```

- a) HelloWorld
- b) Hello World
- c) Hello + World
- d) Syntax Error

Answer: a) HelloWorld

2. Which of the following is a numeric data type in Python?

- a) str
- b) list
- c) float
- d) bool

Answer: c) float

3. What does the `%` operator do in the context of string formatting?

- a) Multiplication
- b) Division
- c) String Concatenation
- d) String Formatting

Answer: d) String Formatting

4. How can you convert a string to an integer in Python?

- a) `str()`
- b) `int()`
- c) `float()`
- d) `bool()`

Answer: b) `int()`

5. Which function is used for printing output in Python?

- a) ``display()``
- b) ``print()``
- c) ``show()``
- d) ``output()``

Answer: b) ``print()``

6. What does the ``sep`` parameter in the ``print()`` function control?

- a) End character
- b) Separator between values
- c) File to write to
- d) Formatting options

Answer: b) Separator between values

7. What is the result of ``5 / 2`` in Python?

- a) 2
- b) 2.5
- c) 3
- d) 2.0

Answer: b) 2.5

8. How can you convert a float to an integer in Python?

- a) ``int()``
- b) ``str()``
- c) ``float()``
- d) ``bool()``

Answer: a) ``int()``

9. Which of the following is an example of a syntax error?

- a) ``print("Hello", "World")``
- b) ``print("Hello" + "World")``

- c) ``print("Hello" "World")``
- d) ``print("Hello" + World)``

Answer: d) ``print("Hello" + World)``

10. What will the following code output?

```
```python
name = "Alice"
print(f"My name is {name}")
```
```

- a) My name is Alice
- b) My name is {name}
- c) My name is 'Alice'
- d) Syntax Error

Answer: a) My name is Alice

11. How can you round a floating-point number to two decimal places?

- a) ``round(number, 2)``
- b) ``float(number, 2)``
- c) ``decimal(number, 2)``
- d) ``math.round(number, 2)``

Answer: a) ``round(number, 2)``

12. What is the result of ``2 * 3`` in Python?

- a) 5
- b) 6
- c) 8
- d) 10

Answer: c) 8

13. Which function is used for converting a character to its ASCII code?

- a) ``chr()``
- b) ``ord()``

- c) ``ascii()``
- d) ``char()``

Answer: b) ``ord()``

14. What is the hexadecimal representation of the decimal number 15?

- a) 0x0F
- b) 0b1111
- c) 15h
- d) 0o17

Answer: a) 0x0F

15. How can you check if a substring is present in a string?

- a) ``substring in string``
- b) ``string.contains(substring)``
- c) ``string.include(substring)``
- d) ``string.has(substring)``

Answer: a) ``substring in string``

16. Which function is used for converting an integer to a binary string?

- a) ``binary()``
- b) ``bin()``
- c) ``to_binary()``
- d) ``int_to_bin()``

Answer: b) ``bin()``

17. What does the ``end`` parameter in the ``print()`` function control?

- a) Separator between values
- b) File to write to
- c) End character
- d) Formatting options

Answer: c) End character

18. How can you convert a string to uppercase in Python?

- a) ``string.upper()``
- b) ``string.to_upper()``
- c) ``uppercase(string)``
- d) ``to_uppercase(string)``

Answer: a) ``string.upper()``

19. What is the output of the following code?

```
```python
x = 3
y = 2.5
print("x + y =", x + y)
```
```

- a) `x + y = 5`
- b) `x + y = 5.5`
- c) `x + y = "32.5"`
- d) Syntax Error

Answer: b) `x + y = 5.5`

20. How can you convert a string to a list of characters in Python?

- a) ``list(string)``
- b) ``string.to_list()``
- c) ``split(string)``
- d) ``char_list(string)``

Answer: a) ``list(string)``

21. What is the output of the following code?

```
```python
name = "Bob"
age = 25
print("My name is {} and I am {} years old.".format(name, age))
```
```

- a) My name is {} and I am {} years old.
- b) My name is Bob and I am 25 years old.
- c) Syntax Error
- d) My name is {name} and I am {age} years old.

Answer: b) My name is Bob and I am 25 years old.

22. Which of the following is a correct way to concatenate two strings in Python?

- a) ``string1 .concat(string2)``
- b) ``concat(string1, string2)``
- c) ``string1 + string2``
- d) ``join(string1, string2)``

Answer: c) ``string1 + string2``

23. What is the result of ``"Python"[-2:]``?

- a) "Py"
- b) "th"
- c) "on"
- d) "nohtyP"

Answer: c) "on"

24. Which function is used to convert a string to a floating-point number?

- a) ``to_float()``
- b) ``float()``
- c) ``str_to_float()``
- d) ``convert_float()``

Answer: b) ``float()``

25. What is the output of the following code?

```
```python
x = 7
y = "3"
print(x * int(y))
```
```

- a) "777"
- b) 21
- c) "3333333"
- d)

10

Answer: b) 21

26. How can you prevent the addition of a newline character when using the `print()` function?

- a) Using the `newline` parameter
- b) Using the `add_newline` parameter
- c) Using the `end` parameter with an empty string
- d) Using the `no_newline` parameter

Answer: c) Using the `end` parameter with an empty string

27. What is the output of the following code?

```
```python
a = 15
b = 4
print(f"{a} divided by {b} is {a // b} with a remainder of {a % b}")
```
```

- a) "15 divided by 4 is 3.75 with a remainder of 3"
- b) "15 divided by 4 is 3.75 with a remainder of 1"
- c) "15 divided by 4 is 3 with a remainder of 3"
- d) "15 divided by 4 is 3 with a remainder of 1"

Answer: c) "15 divided by 4 is 3 with a remainder of 3"

28. How can you redirect the output of the `print()` function to a file?

- a) Using the `output` parameter
- b) Using the `file` parameter
- c) Using the `write_to` parameter
- d) Using the `redirect` parameter

Answer: b) Using the `file` parameter

29. What is the result of `5 % 2` in Python?

- a) 2
- b) 2.5
- c) 3
- d) 1

Answer: d) 1

30. How can you print a formatted string with the current date using the `%` method?

- a) `print("Today is %s" % date)`
- b) `print("Today is {}".format(date))`
- c) `print("Today is {}".format(%date))`
- d) `print("Today is %d" % date)`

Answer: a) `print("Today is %s" % date)`

31. What is the output of the following code?

```
``python
x = 10
y = 20
print(x, y, sep="-")
``
```

- a) 10-20
- b) 10 20
- c) 10,20
- d) 10 / 20

Answer: a) 10-20

32. Which function is used to generate a random integer in Python?

- a) `randint()`
- b) `random_int()`
- c) `random.randint()`
- d) `random_number()`

Answer: c) `random.randint()`

33. How can you print an error message to the standard error stream?

- a) ``print_error("This is an error")``
- b) ``print("This is an error", file=stderr)``
- c) ``stderr.print("This is an error")``
- d) ``print("This is an error")``

Answer: b) ``print("This is an error", file=stderr)``

34. What is the result of the following code?

```
```python
height = 5
width = 10
area = height * width
print(f"The area is {area} square units.")
```
```

- a) The area is 510 square units.
- b) The area is 50 square units.
- c) The area is "5 * 10" square units.
- d) Syntax Error

Answer: b) The area is 50 square units.

35. How can you create a pattern of asterisks forming a triangle using the ``print()`` function?

- a) ``print("*" * n)``
- b) ``print(" " * n + "*" * i)``
- c) ``print(" " * i + "*" * n)``
- d) ``print("*" * i + " " * n)``

Answer: b) ``print(" " * n + "*" * i)``

36. What is the output of the following code?

```
```python
name = "John"
age = 30
print(f"My name is {name} and I am {age} years old.")
```
```

- a) My name is {name} and I am {age} years old.
- b) My name is John and I am 30 years old.
- c) Syntax Error
- d) My name is {} and I am {} years old.

Answer: b) My name is John and I am 30 years old.

37. How can you handle the exception that occurs when trying to convert a non-numeric string to an integer?

- a) Using ``try`` and ``except`` blocks
- b) Using ``check_numeric()`` function
- c) Using ``if`` and ``else`` statements
- d) Using ``throw_error()`` function

Answer: a) Using ``try`` and ``except`` blocks

38. What is the result of the following code?

```
```python
decimal_number = 8.75
rounded_number = round(decimal_number)
print("Rounded Number:", rounded_number)
```
```

- a) Rounded Number: 8
- b) Rounded Number: 9
- c) Rounded Number: 8.75
- d) Syntax Error

Answer: a) Rounded Number: 8

39. How can you convert a decimal number to a hexadecimal string in Python?

- a) ``hex_string(decimal_number)``
- b) ``decimal_to_hex(decimal_number)``
- c) ``hex(decimal_number)``
- d) ``convert_to_hex(decimal_number)``

Answer: c) ``hex(decimal_number)``

40. What is the output of the following code?

```
```python
favorite_color = "Green"
print(f"My favorite color is {favorite_color.upper()}")
```
```

- a) My favorite color is GREEN.
- b) My favorite color is green.
- c) My favorite color is "Green".
- d) Syntax Error

Answer: a) My favorite color is GREEN.