

Certainly! Here are 20 multiple-choice questions (MCQs) on Python with options. Please note that the answers are provided at the end:

1. ****What is Python?****
 - A) A high-level programming language
 - B) A type of snake
 - C) A video editing software
 - D) A database management system
2. ****Which of the following is the correct way to comment in Python?****
 - A) // This is a comment
 - B) /* This is a comment */
 - C) # This is a comment
 - D) <!-- This is a comment -->
3. ****What is the purpose of the "print" function in Python?****
 - A) Displaying output on the screen
 - B) Reading user input
 - C) Performing mathematical calculations
 - D) Defining a variable
4. ****How do you define a function in Python?****
 - A) function my_function():
 - B) def my_function():
 - C) define my_function():
 - D) func my_function():
5. ****Which of the following is the correct way to open a file in Python?****
 - A) open("file.txt", "r")
 - B) read("file.txt")
 - C) fopen("file.txt", "read")
 - D) file.open("file.txt", "read")
6. ****What is the purpose of the "self" parameter in a class method?****
 - A) It refers to the current instance of the class
 - B) It is a keyword for handling exceptions
 - C) It represents the superclass
 - D) It is used for defining class attributes
7. ****Which of the following is an immutable data type in Python?****
 - A) List
 - B) Tuple
 - C) Set
 - D) Dictionary

8. ****What does the "PEP 8" style guide in Python recommend?****
- A) Naming conventions and coding standards
 - B) Data encryption techniques
 - C) Database optimization techniques
 - D) Network protocols
9. ****What is the purpose of the "__init__" method in a Python class?****
- A) Initializing class variables
 - B) Defining the class constructor
 - C) Executing the main program
 - D) Handling exceptions
10. ****Which of the following is a correct way to create a list in Python?****
- A) list = [1, 2, 3]
 - B) array = {1, 2, 3}
 - C) tuple = (1, 2, 3)
 - D) set = {1, 2, 3}
11. ****What is the purpose of the "try" and "except" blocks in Python?****
- A) Defining a loop
 - B) Handling exceptions
 - C) Importing modules
 - D) Creating a class
12. ****Which of the following is used for inheritance in Python?****
- A) extends
 - B) inherit
 - C) :inherit
 - D) class
13. ****What does the "sys.argv" list contain in Python?****
- A) Command-line arguments
 - B) System environment variables
 - C) Module names
 - D) File paths
14. ****What is the purpose of the "pip" tool in Python?****
- A) Creating virtual environments
 - B) Managing packages and dependencies
 - C) Executing Python scripts
 - D) Generating documentation
15. ****What is the result of the expression `3 + 4 * 2` in Python?****

- A) 14
- B) 11
- C) 15
- D) 22

16. ****Which of the following is a built-in function for sorting a list in Python?****

- A) sort()
- B) order()
- C) arrange()
- D) organize()

17. ****What is the purpose of the "lambda" function in Python?****

- A) Defining anonymous functions
- B) Working with complex numbers
- C) Implementing multi-threading
- D) Creating decorators

18. ****How do you open a file in binary mode in Python?****

- A) open("file.txt", "b")
- B) read("file.txt", "binary")
- C) open("file.txt", "rb")
- D) file.open("file.txt", "binary")

19. ****Which of the following is the correct way to delete an element from a dictionary in Python?****

- A) delete my_dict[key]
- B) remove my_dict[key]
- C) del my_dict[key]
- D) discard my_dict[key]

20. ****What does the "super()" function do in Python?****

- A) Calls a method in the superclass
- B) Returns the square root of a number
- C) Checks for prime numbers
- D) Initiates a recursive function

****Answers:****

1. A, 2. C, 3. A, 4. B, 5. A, 6. A, 7. B, 8. A, 9. B, 10. A, 11. B, 12. A, 13. A, 14. B, 15. B, 16. A, 17. A, 18. C, 19. C, 20. A