

PYTHON EXAM 80 IMPORTANT MCQS

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- **What is an algorithm?**
 - B) A step-by-step procedure for solving a problem
- **What is a flowchart used for?**
 - B) Representing algorithms visually
- **Which symbol represents a decision in a flowchart?**
 - C) Diamond
- **Define the term 'compilation':**
 - B) Translating code into machine language
- **What is debugging?**
 - B) Testing and finding errors in a program
- **What does 'documentation' refer to in programming?**
 - C) Writing comments and manuals for code
- **What is a programming language?**
 - B) A language for writing software
- **What is the basic model of computation?**
 - C) Input process and output
- **What is the primary purpose of an algorithm?**
 - B) To solve a problem step-by-step
- **What is sequential processing in algorithms?**
 - B) Steps that are executed one after another
- **How is a process represented in a flowchart?**
 - B) Rectangle
- **What does iterative processing involve?**
 - C) Repeating steps
- **Which of the following is an example of decision-based processing?**
 - C) Checking if a number is even or odd
- **What is the first step in exchanging values of two variables?**
 - C) Use a temporary variable
- **What does GCD stand for?**
 - A) Greatest Common Divisor
- **How can you check if a number is prime in an algorithm?**
 - B) Check divisibility by numbers up to its square root
- **What makes Python popular?**
 - A) Easy to read and write
- **What is the role of the Python interpreter?**
 - B) To execute Python programs
- **How do you execute a Python program?**
 - B) Using the Python interpreter
- **How are comments written in Python?**

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- C) # comment
- **What are literals in Python?**
 - B) Data that is constant
- **Which of the following is a constant in Python?**
 - B) 3.14
- **Which built-in data type is NOT supported by Python?**
 - D) Character
- **How do you accept input from the console in Python?**
 - B) input()
- **Which function is used to print statements in Python?**
 - C) print()
- **What does the following Python program do?**

```
a = 5
b = 10
print(a + b)
```

 - C) Adds two numbers and prints 15
- **What is an assignment statement in Python?**
 - B) a = b
- **Which of the following is an arithmetic operator?**
 - B) %
- **What is the correct order of precedence for operators in Python?**
 - B) Parentheses Multiplication Addition
- **Which statement is used for conditional execution?**
 - C) if
- **What will the following code print?**

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

 - A) Yes
- **What does the 'elif' keyword do?**
 - C) Adds an additional condition
- **Which loop is used for iterating over a sequence?**
 - B) for
- **What does the 'break' statement do?**
 - B) Ends the loop immediately
- **What is the purpose of the 'continue' statement?**
 - B) Continues to the next iteration
- **What does the 'pass' statement do?**
 - C) Does nothing
- **Which statement is used for an infinite loop?**
 - B) while
- **What does the 'assert' statement do?**
 - C) Tests a condition
- **Which of the following is a mutable data type?**
 - C) List

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- **Which of the following is an immutable data type?**
 - D) Tuple
- **How do you slice a list in Python?**
 - D) All of the above
- **What does indexing a string mean?**
 - C) Accessing characters in the string
- **How do you concatenate two tuples?**
 - A) Using the + operator
- **What does mutability mean?**
 - A) The ability to change
- **Which function is used to find the maximum value in a list?**
 - A) max()
- **How do you perform a linear search on a list?**
 - A) Using a loop to iterate through the list
- **What is a dictionary in Python?**
 - B) A collection of unordered changeable and indexed items
- **How do you count the frequency of elements in a list using a dictionary?**
 - A) By creating a dictionary where keys are list elements and values are counts
- **What is a function in Python?**
 - B) A block of code that performs a specific task
- **How do you define a function in Python?**
 - B) using the def keyword
- **What is a function parameter?**
 - C) An argument passed to the function
- **What is the use of the 'return' statement in a function?**
 - C) To return a value from the function
- **What is a local variable?**
 - B) A variable defined inside a function
- **What does the 'global' keyword do?**
 - B) Declares a variable as global
- **What are default argument values in Python?**
 - A) Arguments that have default values if not provided
- **How do you pass keyword arguments to a function?**
 - B) By using the ** symbol
- **What are VarArgs parameters?**
 - C) Parameters that accept a variable number of arguments
- **How do you write a recursive function?**
 - A) A function that calls itself
- **Which of the following is a built-in function in Python?**
 - D) All of the above
- **How do you find the length of a string in Python?**
 - A) len()
- **What does the random() function do?**

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- A) Generates a random number
- **How do you find the square root of a number in Python?**
 - A) Using the `sqrt()` function from the `math` module
- **What does the `partition()` method do in a string?**
 - A) Splits the string into three parts
- **What does the `join()` method do in a string?**
 - A) Joins elements of a sequence into a single string
- **What is a file in Python?**
 - A) A collection of data stored in one unit
- **How do you open a file in Python?**
 - A) `open(filename, mode)`
- **Which mode is used to open a file for reading?**
 - A) 'r'
- **Which mode is used to open a file for writing?**
 - B) 'w'
- **How do you read the entire content of a file?**
 - A) `read()`
- **What does the `writelines()` method do?**
 - A) Writes a list of strings to the file
- **What does the `'tell()'` method do in file handling?**
 - A) Returns the current file position
- **What does the `'seek()'` method do in file handling?**
 - A) Changes the file position
- **What are command line arguments?**
 - A) Arguments passed to the script at the time of execution
- **What is the LEGB rule?**
 - A) A rule for variable scope in Python
- **What is a module in Python?**
 - A) A file containing Python definitions and statements
- **How do you import a module in Python?**
 - A) `import module_name`
- **How do you create a module in Python?**
 - A) By creating a `.py` file with functions and variables
- **What is the scope of a variable defined inside a function?**
 - A) Local scope
- **What is NumPy?**
 - A) A library for numerical computations in Python
- **How do you create an ndarray in NumPy?**
 - A) Using the `array()` function