

Topic	Subtopic	# Count	Basic Knowledge Required	Example Questions	Question Numbers
Variables and Identifiers	Naming and Rules	4	Rules for valid and invalid identifiers, case-sensitivity	Is Python case sensitive when dealing with identifiers?	1, 2, 4, 5
Operators and Expressions	Operator Precedence and Associativity	6	Order of operations (PEMDAS/BODMAS), including parentheses	Operators with the same precedence are evaluated from left to right.	6, 7, 8, 10, 24, 30
Data Types	Numeric Types and Operations	10	Different numeric types (int, float, complex), how to perform arithmetic	What is the type of inf? What does ~4 evaluate to?	11, 12, 13, 14, 15, 21, 22, 23, 29, 33
	Type Conversion (Casting)	5	How to explicitly convert values between different types	The expression int(x) implies that the value of x is a string.	9, 16, 25, 26, 28
	Bitwise Operators	4	Understanding bitwise operators (&, ^, ~, >>) and how they work on integers.	Knowledge of binary representation.	Which of the following represents the bitwise XOR of 5 and 9?
	Collections	2	Basic data structures like list and dictionary, their methods	What data type is the object below? In Python, which of the following is mutable?	19, 20
Control Flow	Loops (for, while)	6	The syntax and logic of for and while loops, including break and continue	What will be the output of the following Python code?	41, 43, 44, 45, 46, 47
Functions	User-defined Functions	6	Defining functions using def, parameter passing, return values	What will be the output of the following Python code?	18, 82, 83, 84, 87, 88
	Built-in Functions	5	The purpose and usage of common built-in functions like len(), max(), min()	Which of the following functions is a built-in function in Python?	71, 72, 73, 74, 85
String Formatting	% Operator Formatting	6	Using the % operator for string formatting with different data types	The output of which of the codes shown below will be '2019-01-01'?	52, 53, 54, 55, 57, 58
	str.format() Method	3	Using the str.format() method with positional and keyword arguments	What will be the output of the following Python code?	61, 62, 63
String Manipulation	String Properties & Methods	3	Understanding raw strings (r"..."), string literals, concatenation	What will be the output of the following Python code?	66, 67, 69
Regular Expressions (re)	re Module Functions	5	Key functions in the re module (re.match, re.search, re.findall)	Which module in Python supports regular expressions?	91, 92, 93, 94, 95
Object-Oriented Programming (OOP)	Classes and Objects	5	Core concepts of OOP including objects, classes, inheritance	What is setattr() used for? What will be the output of the following code?	101, 102, 104, 105, 110
	Class and Instance Variables	1	Understanding how instance variables are stored and accessed	What will be the output of the following Python code?	109
	Error Handling	1	Recognizing different types of errors like NameError, SyntaxError	What error occurs when you execute the following code?	17
Miscellaneous	Operators	1	The concept of operator overloading.	The assignment of more than one function to a particular operator.	48