

CERTIFIED ENTRY-LEVEL PYTHON PROGRAMMER (PCEP-30-02) PRACTICE EXAM (SAMPLE)

STUDY GUIDE

```
21712 function(scope, element, attr, ngSwitchController) {
21713   // scope
21714   var switchExpr = attr.ngSwitch // attr.on,
21715   selectedTranscludes = [],
21716   selectedElements = [],
21717   previousElements = [],
21718   selectedScopes = [];
21719
21720   scope.$watch(switchExpr, function ngSwitchWatchAction(value) {
21721     var i, ii;
21722     for (i = 0, ii = previousElements.length; i < ii; ++i) {
21723       previousElements[i].remove();
21724     }
21725     previousElements.length = 0;
21726
21727     for (i = 0, ii = selectedScopes.length; i < ii; ++i) {
21728       var selected = selectedElements[i];
21729       selectedScopes[i].$destroy();
21730       previousElements[i] = selected;
21731       $animate.leave(selected, function() {
21732         previousElements.splice(i, 1);
21733       });
21734     }
21735
21736     selectedElements.length = 0;
21737     selectedScopes.length = 0;
21738
21739     if ((selectedTranscludes = ngSwitchController.cases['!' + value] // ngSwitchC
21740     scope.$eval(attr.change);
21741     forEach(selectedTranscludes, function(selectedTransclude) {
21742       var selectedScope = scope.$new();
21743       selectedScopes.push(selectedScope);
21744     });
21745   });
21746 }
```

SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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THE FULL VERSION STUDY GUIDE

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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1. What function is used to interrupt the current cycle without jumping out of the entire loop?
 - A. exit
 - B. skip
 - C. continue
 - D. break
2. What type of argument is dictated by its name rather than its position?
 - A. Positional argument
 - B. Keyword argument
 - C. Variable argument
 - D. Default argument
3. Which comparison operator checks for equality in Python?
 - A. =
 - B. ==
 - C. !=
 - D. ===
4. Which method adds a new item to the end of a list?
 - A. add()
 - B. append()
 - C. insert()
 - D. push()
5. What is the function to convert a float to a string?
 - A. str()
 - B. float_to_str()
 - C. stringfy()
 - D. convert()
6. Which error indicates there is an invalid value in a specified data type?
 - A. ArithmeticError
 - B. ValueError
 - C. TypeError
 - D. KeyError

7. What is the output of the following operation: $7 / 2$?

- A. 3
- B. 3.5
- C. 4
- D. 2.5

8. What does the % operator compute in Python?

- A. Division
- B. Multiplication
- C. Floor Division
- D. Remainder after division

9. Which statement is true regarding exception handling in Python?

- A. All exceptions are derived from the BaseException class.
- B. Only run-time exceptions are derived from the Exception class.
- C. BaseException is used only for system-exiting exceptions.
- D. Exceptions in Python do not require a base class.

10. Which of the following is a recommended practice for comments in Python?

- A. Comments should always be long and detailed
- B. Comments should explain non-obvious code
- C. Comments should be avoided in production code
- D. Comments should repeat the code

Answers

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1. C
2. B
3. B
4. B
5. A
6. B
7. B
8. D
9. A
10. B

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Explanations

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1. What function is used to interrupt the current cycle without jumping out of the entire loop?

- A. exit
- B. skip
- C. continue**
- D. break

The function used to interrupt the current cycle without exiting the entire loop is the "continue" statement. When "continue" is executed within a loop, it causes the loop to skip the remaining code inside its block for the current iteration and immediately moves to the next iteration. This is particularly useful when there are specific conditions under which you want to exclude certain values or perform specific actions selectively while still iterating through the loop's full range. For example, in a for-loop that processes a list of numbers, you might want to skip over any negative numbers to focus on positive ones. By including a "continue" statement within an if-condition that checks for negative numbers, the loop will skip those numbers and continue with the next iteration, allowing the program to run smoothly without terminating the whole loop. The other options serve different purposes: "exit" typically ends the entire program, "skip" is not a standard Python keyword, and "break" is used to immediately exit the loop altogether, rather than just skipping the current iteration.

2. What type of argument is dictated by its name rather than its position?

- A. Positional argument
- B. Keyword argument**
- C. Variable argument
- D. Default argument

A keyword argument is one that is specified by explicitly naming the parameter when calling a function, thus dictating its value by name instead of relying on its position in the argument list. This approach enhances code readability and makes it easier to understand what each argument is intended to represent. For example, in a function definition like `def display_info(name, age):`, calling `display_info(age=30, name="Alice")` utilizes keyword arguments. In this case, the caller can specify the parameters in any order, as long as they associate the values with the correct names. This flexibility helps avoid errors that might occur if the order of positional arguments is incorrectly remembered or misinterpreted. Positional arguments require the caller to place arguments in the same order as defined by the function. Variable arguments allow a function to accept an arbitrary number of arguments, which are not dictated by names. Default arguments are values specified within the function definition that are used if no corresponding argument is provided during the function call, but they still do not offer the same flexibility provided by keyword arguments.

3. Which comparison operator checks for equality in Python?

- A. =
- B. ==**
- C. !=
- D. ===

The operator that checks for equality in Python is the double equals sign (==). This operator is used to compare two values to determine if they are equal. When you use this operator in an expression, Python evaluates the expression and returns True if the values on either side are equal, and False if they are not. For instance, if you have a statement like `5 == 5`, the result would be True because both sides are equal. Conversely, `5 == 4` would result in False since the values do not match. The other options do not serve the purpose of checking for equality in Python. The single equals sign (=) is used for assignment, not comparison. The exclamation mark followed by an equals sign (!=) means "not equal," which is used to check if two values are different. The triple equals sign (===) is not a valid operator in Python; it is commonly found in other programming languages like JavaScript but does not apply in Python's syntax for equality checks.

4. Which method adds a new item to the end of a list?

- A. add()
- B. append()**
- C. insert()
- D. push()

The method that adds a new item to the end of a list is the `append()` method. When you use `append()`, you are modifying the list in place by adding a single item at the very end of the existing elements. This is a common operation when working with lists in Python, as it allows for dynamic list expansion as new data is introduced. The `append()` method takes one argument, the item to be added, and it effectively increases the size of the list by one each time it is called. For example, if you have a list called `my_list`, executing `my_list.append(5)` would add the number 5 to the end of `my_list`. Other methods mentioned do not function in the same way. The `add()` method is not a built-in method for lists in Python. The `insert()` method allows you to add an item at a specific index, which is different from adding it to the end of the list. The `push()` term is used in other programming contexts, such as stacks, but it is not a built-in method in Python for lists. Therefore, `append()` is the correct choice for adding an item to the end of a list.

5. What is the function to convert a float to a string?

- A. str()**
- B. float_to_str()
- C. stringfy()
- D. convert()

The function used to convert a float to a string in Python is `str()`. This built-in function can take various data types as its argument, including integers, floats, and lists, and convert them into string format. This is particularly useful when you need to concatenate numbers with strings or display numerical values as text in user interfaces or logs. For example, if you have a float variable like 3.14 and you use `str(3.14)`, it will return the string "3.14". This functionality allows for flexibility in how data is presented and manipulated within the program. The other options provided do not exist in Python's standard library for this purpose. Thus, `str()` is the appropriate and correct choice for converting floats to strings.

6. Which error indicates there is an invalid value in a specified data type?

- A. ArithmeticError
- B. ValueError**
- C. TypeError
- D. KeyError

ValueError is the correct answer because it specifically indicates that an operation or function has received an argument that has the right type but an inappropriate value. This kind of error often occurs when you attempt to perform operations on data that can't be processed because the value lies outside of acceptable parameters for its type. For example, using a string that cannot be converted into a number will raise a ValueError. In contrast, ArithmeticError refers to errors that occur during numerical operations, such as division by zero. TypeError, on the other hand, occurs when an operation is applied to an object of an inappropriate type, such as trying to add a string to an integer. Lastly, KeyError is raised when a dictionary is accessed with a key that does not exist in that dictionary. Each of these errors addresses different types of issues, making ValueError the one that specifically relates to invalid values within a given data type.

7. What is the output of the following operation: 7 / 2?

- A. 3
- B. 3.5**
- C. 4
- D. 2.5

The operation 7 / 2 in Python performs division that results in a float. In this case, dividing 7 by 2 yields 3.5, which is the exact result of the operation. Python 3 uses true division by default for the division operator (/) when both operands are integers. This means that rather than performing floor division (which would return only the whole number part), it calculates the exact decimal value. Therefore, the correct output of the operation is indeed 3.5. This understanding is crucial for accurately utilizing the division operator in Python, as it differs from some other programming languages that may perform integer division with the same operator if both operands are integers.

8. What does the % operator compute in Python?

- A. Division
- B. Multiplication
- C. Floor Division
- D. Remainder after division**

The % operator in Python is known as the modulus operator, and it computes the remainder after division. When you use this operator between two numbers, it divides the left operand by the right operand and returns the remainder of that division. For example, in the expression `7 % 3`, the division of 7 by 3 results in a quotient of 2 (since 3 goes into 7 two times) with a remainder of 1. Therefore, `7 % 3` evaluates to 1. This is a fundamental operation in programming, often used in various applications, such as determining whether a number is even or odd (checking if a number % 2 equals 0), or constraining values to a specific range. Understanding how the % operator works is essential for tasks that involve arithmetic operations and conditions.

9. Which statement is true regarding exception handling in Python?

- A. All exceptions are derived from the BaseException class.**
- B. Only run-time exceptions are derived from the Exception class.
- C. BaseException is used only for system-exiting exceptions.
- D. Exceptions in Python do not require a base class.

The statement regarding exception handling in Python that is true is that all exceptions are derived from the BaseException class. In Python, the exception hierarchy begins with the BaseException class, which is the root class for all exceptions. This means that every exception that can be raised in Python is ultimately a subclass of BaseException, allowing for a uniform way to handle exceptions across various types. This design supports the concept of a hierarchy where specific exceptions can inherit from BaseException or from the more commonly used Exception class, which itself inherits from BaseException. The wider hierarchy allows for both broad and fine-tuned exception handling. For instance, program logic can catch all exceptions derived from BaseException or just those derived from Exception, depending on the desired granularity. The other statements do not accurately describe the exception handling mechanism in Python. For example, while some exceptions are indeed derived from the Exception class, not all runtime exceptions are limited to it since all exceptions derived from BaseException could potentially include system-exiting exceptions as well. Furthermore, while BaseException can include system-exiting exceptions, it is still the overarching class for all exceptions, not exclusively for those scenarios. Lastly, all exceptions do require a base class since they are designed to inherit from the BaseException, emphasizing

10. Which of the following is a recommended practice for comments in Python?

- A. Comments should always be long and detailed
- B. Comments should explain non-obvious code**
- C. Comments should be avoided in production code
- D. Comments should repeat the code

The recommended practice for comments in Python is to ensure they explain non-obvious code. This means that comments should provide clarity and insight into the logic or purpose of code segments that may not be immediately understandable to someone reading the code for the first time. The aim of comments is to enhance code readability and maintainability, making it easier for developers to understand what the code is doing and why certain decisions were made. Using comments to clarify non-obvious aspects of the code facilitates collaboration among developers, as well as aids in future code revisions or debugging. Clear and concise explanations of complex logic or algorithms can save time and reduce confusion in team environments. Other practices, such as making comments excessively long and detailed or repeating the code, do not align with the best practices in software development. Long comments can clutter the code and may overwhelm readers, while simply repeating what the code does adds no value. Comments should complement the code, not duplicate its functionality. Avoiding comments entirely in production code is also not advisable, as it deprives readers of valuable context about the code's purpose and logic.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

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We wish you the very best on your exam journey. You've got this!

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