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⊖ Perform Operations using Data Types and Operators (20-25%)

Evaluate an expression to identify the data type Python will assign to each variable

- Identify str, int, float, and bool data types

Perform data and data type operations

- Convert from one data type to another type; construct data structures; perform indexing and slicing operations

Determine the sequence of execution based on operator precedence

- Assignment; Comparison; Logical; Arithmetic; Identity (is); Containment (in)

Select the appropriate operator to achieve the intended result

- Assignment; Comparison; Logical; Arithmetic; Identity (is); Containment (in)

⊖ Control Flow with Decisions and Loops (25-30%)

Construct and analyze code segments that use branching statements

- if; elif; else; nested and compound conditional expressions

Construct and analyze code segments that perform iteration

- while; for; break; continue; pass; nested loops and loops that include compound conditional expressions

⊖ Perform Input and Output Operations (20-25%)

Construct and analyze code segments that perform file input and output operations

- Open; close; read; write; append; check existence; delete; with statement

Construct and analyze code segments that perform console input and output operations

- Read input from console; print formatted text; use of command line arguments

⊖ Document and Structure Code (15-20%)

Document code segments using comments and documentation strings

- Use indentation, white space, comments, and documentation strings; generate documentation by using pydoc

Construct and analyze code segments that include function definitions

- Call signatures; default values; return; def; pass

− Perform Troubleshooting and Error Handling (5-10%)

Analyze, detect, and fix code segments that have errors

- Syntax errors; logic errors; runtime errors

Analyze and construct code segments that handle exceptions

- Try; except; else; finally; raise

− Perform Operations Using Modules and Tools (1-5%)

Perform basic operations using built-in modules

- Math; datetime; io; sys; os; os.path; random

Solve complex computing problems by using built-in modules

- Math; datetime; random

Preparation options

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− Instructor-led training

55264A: Introduction to Programming Using Python

− Practice test

Take a Microsoft Official Practice Test for exam 98-381

Beginning in April 2017, over time, practice tests will become available in multiple languages, including Spanish, Chinese (Simplified), Chinese (Traditional), French, German, Japanese, Portuguese (Brazil), and Russian. To see when a specific language is offered for this practice test, please check back.

Who should take this exam?

Candidates for this exam should be able to recognize and write syntactically correct Python code, recognize data types supported by Python, and be able to recognize and write Python code that will