



MICROSOFT 98-381

**Microsoft Introduction to Programming Using Python Certification
Questions & Answers**

Exam Summary – Syllabus – Questions

98-381

Microsoft Technology Associate (MTA) - Introduction to Programming Using Python

40-60 Questions Exam – 700/1000 Cut Score – Duration of 45 minutes

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Know Your 98-381 Certification Well:

The 98-381 is best suitable for candidates who want to gain knowledge in the Microsoft Visual Studio. Before you start your 98-381 preparation you may struggle to get all the crucial Introduction to Programming Using Python materials like 98-381 syllabus, sample questions, study guide.

But don't worry the 98-381 PDF is here to help you prepare in a stress free manner. The PDF is a combination of all your queries like-

- What is in the 98-381 syllabus?
- How many questions are there in the 98-381 exam?
- Which Practice test would help me to pass the 98-381 exam at the first attempt?

Passing the 98-381 exam makes you Microsoft Technology Associate (MTA) - Introduction to Programming Using Python. Having the Introduction to Programming Using Python certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

Microsoft 98-381 Introduction to Programming Using Python Certification Details:

Exam Name	Microsoft Technology Associate (MTA) - Introduction to Programming Using Python
Exam Code	98-381
Exam Price	\$127 (USD)
Duration	45 mins
Number of Questions	40-60
Passing Score	700 / 1000
Schedule Exam	Pearson VUE
Sample Questions	Microsoft Introduction to Programming Using Python Sample Questions
Practice Exam	Microsoft 98-381 Certification Practice Exam

98-381 Syllabus:

Topic	Details	Weights
Perform Operations using Data Types and Operators	<ul style="list-style-type: none"> - Evaluate an expression to identify the data type Python will assign to each variable <ul style="list-style-type: none"> • identify str, int, float, and bool data types - Perform data and data type operations <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • assignment; comparison; logical; arithmetic; identity (is); containment (in) - Select the appropriate operator to achieve the intended result <ul style="list-style-type: none"> • assignment; comparison; logical; arithmetic; identity (is); containment (in) 	20-25%
Control Flow with Decisions and Loops	<ul style="list-style-type: none"> - Construct and analyze code segments that use branching statements <ul style="list-style-type: none"> • if; elif; else; nested and compound conditional expressions - Construct and analyze code segments that perform iteration <ul style="list-style-type: none"> • while; for; break; continue; pass; nested loops and loops that include compound conditional expressions 	25-30%
Perform Input and Output Operations	<ul style="list-style-type: none"> - Construct and analyze code segments that perform file input and output operations <ul style="list-style-type: none"> • open; close; read; write; append; check existence; delete; with statement - Construct and analyze code segments that perform console input and output operations <ul style="list-style-type: none"> • read input from console; print formatted text; use of command line arguments 	20-25%

Topic	Details	Weights
Document and Structure Code	<ul style="list-style-type: none"> - Document code segments using comments and documentation strings <ul style="list-style-type: none"> • use indentation, white space, comments, and documentation strings; generate documentation by using pydoc - Construct and analyze code segments that include function definitions <ul style="list-style-type: none"> • call signatures; default values; return; def; pass 	15-20%
Perform Troubleshooting and Error Handling	<ul style="list-style-type: none"> - Analyze, detect, and fix code segments that have errors <ul style="list-style-type: none"> • syntax errors; logic errors; runtime errors - Analyze and construct code segments that handle exceptions <ul style="list-style-type: none"> • try; except; else; finally; raise 	5-10%
Perform Operations Using Modules and Tools	<ul style="list-style-type: none"> - Perform basic operations using built-in modules <ul style="list-style-type: none"> • math; datetime; io; sys; os; os.path; random - Solve complex computing problems by using built-in modules <ul style="list-style-type: none"> • math; datetime; random 	1-5%

Microsoft 98-381 Sample Questions:

Question: 1

The ABC company has hired you as an intern on the coding team that creates e-commerce applications. You must write a script that asks the user for a value. The value must be used as a whole number in a calculation, even if the user enters a decimal value.

You need to write the code to meet the requirements. Which code segment should you use?

- totalItems = input("How many items would you like?")
- totalItems = float(input("How many items would you like?"))
- totalItems = str(input("How many items would you like?"))
- totalItems = int(input("How many items would you like?"))

Answer: d

Question: 2

You have the following code:

```
v = bool([False])
x = bool(3)
y = bool("")
z = bool(' ')
```

Which of the variables will equal False?

- a) z
- b) y
- c) x
- d) v

Answer: b

Question: 3

You are writing an application that uses the sqrt function. The program must reference the function using the name squareRoot. You need to import the function.

Which code segment should you use?

- a) import math.sqrt as squareRoot
- b) import sqrt from math as squareRoot
- c) from math import sqrt as squareRoot
- d) from math.sqrt as squareRoot

Answer: c

Question: 4

You are writing code that generates a random integer with a minimum value of 5 and a maximum value of 11. Which two functions should you use?

Each correct answer presents a complete solution. (Choose two.)

- a) random.randint(5, 12)
- b) random.randint(5, 11)
- c) random.randrange(5, 12, 1)
- d) random.randrange(5, 11, 1)

Answer: b, c

Question: 5

You are creating a function that manipulates a number. The function has the following requirements:

- ➔ A float is passed into the function
- ➔ The function must take the absolute value of the float
- ➔ Any decimal points after the integer must be removed

Which two math functions should you use?

Each correct answer is part of the solution. (Choose two.)

- a) `math.fmod(x)`
- b) `math.frexp(x)`
- c) `math.floor(x)`
- d) `math.ceil(x)`
- e) `math.fabs(x)`

Answer: c, e

Question: 6

You develop a Python application for your company. You want to add notes to your code so other team members will understand it. What should you do?

- a) Place the notes after the `#` sign on any line
- b) Place the notes after the last line of code separated by a blank line
- c) Place the notes before the first line of code separated by a blank line
- d) Place the notes inside of parentheses on any time

Answer: a

Question: 7

You run the following code:

```
def calc1(rate, item):  
    item *= (1 + rate)  
    rate = 0.25  
    item = 12000  
    calc1(rate, item)  
    print('Rate:', rate, '; Value:', item)
```

What will be displayed on the screen?

- a) Rate: 1.25 ; Value: 15000
- b) Rate: 1.25 ; Value: 12000
- c) Rate: 0.25 ; Value: 15000
- d) Rate: 0.25 ; Value: 12000

Answer: d

Question: 8

You develop a Python application for your company. A list named `employees` contains 200 employee names, the last five being company management.

You need to slice the list to display all employees excluding management. Which two code segments should you use?

Each correct answer presents a complete solution. (Choose two.)

- a) `employees [1:-4]`
- b) `employees[:-5]`
- c) `employees [1:-5]`
- d) `employees [0:-4]`
- e) `employees [0:-5]`

Answer: b, e

Question: 9

You develop a Python application for your school. You need to read and write data to a text file. If the file does not exist, it must be created. If the file has content, the content must be removed.

Which code should you use?

- a) `open("local_data", "r")`
- b) `open("local_data", "w+")`
- c) `open("local_data", "r+")`
- d) `open("local_data", "w")`

Answer: b

Question: 10

Evaluate the following Python arithmetic expression:

`(3*(1+2)**2 - (2**2)*3)`

What is the result?

- a) 3
- b) 13
- c) 15
- d) 69

Answer: c

Study Guide to Crack Microsoft Introduction to Programming Using Python 98-381 Exam:

- Getting details of the 98-381 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the 98-381 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the Microsoft provided training for 98-381 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the 98-381 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on 98-381 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

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