EDUSUM

#1 Online Certification Guide

GIAC GPYC

GIAC Python Coder Certification Questions & Answers

Exam Summary – Syllabus –Questions

GPYC

GIAC Python Coder (GPYC)

75 Questions Exam – 67% Cut Score – Duration of 120 minutes

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Know Your GPYC Certification Well:

The GPYC is best suitable for candidates who want to gain knowledge in the GIAC Offensive Operations. Before you start your GPYC preparation you may struggle to get all the crucial GIAC Python Coder materials like GPYC syllabus, sample questions, study guide.

But don't worry the GPYC 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 GPYC syllabus?
- How many questions are there in the GPYC exam?
- Which Practice test would help me to pass the GPYC exam at the first attempt?

Passing the GPYC exam makes you GIAC Python Coder (GPYC). Having the GIAC Python Coder certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

GPYC GIAC Python Coder Certification Details:

Exam Name	GIAC Python Coder (GPYC)
Exam Code	GPYC
Exam Price	$949 (USD)
Duration	120 mins
Number of Questions	75
Passing Score	67%
Books / Training	**SEC573: Automating Information Security with Python**
Schedule Exam	**Pearson VUE**
Sample Questions	**GIAC GPYC Sample Questions**
Practice Exam	**GIAC GPYC Certification Practice Exam**

GPYC Syllabus:

Topic	Details
Control Structures and Iteration	- The candidate will be able to create and analyze simple control structures, including conditionals (if/else/elif) and for/while loops using Python.
Creation of Executables	- The candidate will have a basic understanding of creating a Python executable for Windows clients with a focus on penetration testing. This includes an understanding of backdoor functionality, the conversion of a Python program to an executable file, and using Python to create an executable that will evade most modern anti-virus signatures.
Data Analysis with Python	- The candidate will demonstrate the ability to use Python for various data analysis techniques including parsing binary data with the struct module, common file formats, log analysis and statistics with freq.py, counters and sets, long tail and short-tail analysis.
Data Structures	- The candidate will be able to create and manipulate variable types and data structures, including bytes, byte arrays, byte encoded unicode characters using UTF-8 and Latin-1, integers, Python 3 strings, sets and sequential data structures, including dictionaries, lists, and tuples.
Database Interaction	- The candidate will understand how to create a Python program to query databases using SQL libraries.
Exception Handling	- The candidate will have a basic understanding of Python exception handling capabilities, and how to build these into a program.
Functions, Classes and Objects	- The candidate will be able to demonstrate an understanding of Python functions, classes, and object oriented programming.
Network Interfaces	- The candidate will be able to implement TCP and UDP network based communications using Pythons socket module.
Packet Analysis with Python	- The candidate will understand how to use extended functionality of Python and Scapy to create, read, analyze, and manipulate captured network traffic.
Python Basics	- The candidate will be able to implement the more fundamental elements of Python, including creating, debugging and executing a program, and user/file input and output.

Topic	Details
Regular Expressions	- The candidate will have a basic understanding of regular expressions, and how to implement them in searches with Python.
Website Interaction	- The candidate will understand how to use Python as a "browser" to interact with URLs and websites, handle cookies, and manipulate or capture traffic.

GIAC GPYC Sample Questions:

Question: 1

If you want to analyze the structure of a binary file, which Python module would you typically use to unpack the binary data into a more readable format?

a) os
b) bin
c) struct
d) fileparse

Answer: c

Question: 2

Which of the following regex patterns would match a date in the format "dd/mm/yyyy"?

a) ^[0-31]/[0-12]/[0-2023]$
b) ^\d{1,2}/\d{1,2}/\d{2,4}$
c) ^[0-9]{2}/[0-9]{2}/[0-9]{4}$
d) ^\d{2}/\d{2}/\d{4}$

Answer: b, c, d

Question: 3

What is the primary purpose of the __init__ method in a Python class?

a) To initialize class-level variables
b) To initialize instance variables when an object is created
c) To delete an instance of the class
d) To inherit properties from a parent class

Answer: b

Question: 4

Given two classes, ‘ClassA’ and ‘ClassB’, if ‘ClassB’ inherits from ‘ClassA’, how can ‘ClassB’ access a method from ‘ClassA’ that it has overridden?

a) By using ‘super()’ function
b) By directly calling the method
c) By using parent keyword
d) By using base keyword

Answer: a

Question: 5

How do you open a file named "data.txt" for reading in Python?

a) open("data.txt", "r")
b) file.open("data.txt")
c) openFile("data.txt")
d) readFile("data.txt")

Answer: d

Question: 6

Fill in the blank: In Python, a _____ is an ordered collection of items, where each item can be of a different type.

a) List
b) Set
c) Dictionary key
d) Boolean

Answer: a

Question: 7

In a while loop, what is the purpose of the else clause?

a) It is executed when the loop condition becomes False.
b) It is executed when the loop condition becomes True.
c) It is executed when a ‘break’ statement is encountered.
d) It is executed when a ‘continue’ statement is encountered.

Answer: a

Question: 8

Which of the following socket types are associated with the UDP protocol, which is best suited for real-time applications where speed is more critical than reliability?

a) SOCK_STREAM
b) SOCK_DGRAM
c) SOCK_RAW
d) SOCK_RDM

Answer: b, d

Question: 9

Which of the following are valid ways to define a function in Python?

(Choose multiple answers)

a) 'def function_name():'
b) 'function function_name() {}'
c) 'function_name -> ():'
d) 'def function_name(args):'

Answer: a, d

Question: 10

When creating a Python-based backdoor, which of the following functionalities might be included?

a) Keylogging
b) Screen capture
c) File transfer
d) Calculating mathematical operations

Answer: a, b, c

Study Guide to Crack GIAC Python Coder GPYC Exam:

- Getting details of the GPYC 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 GPYC 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 GIAC provided training for GPYC 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 GPYC 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 GPYC practice tests is must. Continuous practice will make you an expert in all syllabus areas.