Q1 - What kind of language is Python ?

Python is :Interpreted (most of its implementations execute instructions directly, without previously compiling a program into machine level instructions)

High-level programming language (provides strong abstraction from internal details of computer; and is human readable)

General-purpose programming language (the language could be used to write wide variety of applications)

Q2 - Why is Python called scripting language ?

Python supports scripts: programs written for a Python run-time environment that automate the execution of tasks. These tasks could alternatively be executed one-by-one by a user.

Q3 - What are the benefits of Python ?

There are many benefits in using Python language. Some of them are :

Syntax of Python is easy to learn.

Python is a high-level programming language. So, it provides a good human readability.

Python is cross-platform. Scripts written on an operating system could be run on another with ease.

Python has an active community. Many resources and help is available online.

Python is extensible. Large variety of third-party modules are available.

Python is free. Python programming language can be used for projects without any cost.

Q4 - Give a simple example for Python script.

A simple example where a variable is initialized and printed to the console.

i = 10

print(i)

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Q5 - How to execute a Python Script ?

If python is installed on the machine, command prompt or shell could be used for executing python scripts with python command.

python fileName.py

Q6 - What is Python Shell ?

Python Shell is an interactive command line interface. Python statements can be executed using Python Shell.

Q7 - How do you start Python shell ?

python command will start python shell.

$ python

Python 3.5.2 (v3.5.2:4def2a2901a5, Jun 25 2016, 22:18:55) [MSC v.1900 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license" for more information.

>>>

Q8 - What is the command to get Python Version ?

Python Version is displayed when Python Shell is started. Otherwise, without starting Python Shell,python –version command can be used.

$ python --version

Python 3.5.2

Q9 - Which coding convention is preferred for Python ?

PEP-8[https://www.python.org/dev/peps/pep-0008/] is the style guide recommended by Python Organization.

Q10 - What are the datatypes available in Python ?

Following are the in-built datatypes in Python programming :

Boolean

Numeric

int

float

long

complex

Sequence

String

List

Tuple

Set

Mapping

Dictionary

Q11 - Which conditional statements are available in Python ?

Conditional statements are the programming statements which alter the course of execution based on a condition.

Like other functional programming languages, Python has following conditional statements.

Python If

Python If-Else

Python For

Python While

Conditional Statements are also called Control Statements.

Q12 - Which looping statements are available in Python ?

Looping statements are those which repeat the execution of a set of statements in a cyclic manner based on a condition.

Python For

Python While

Q13 - What is the syntax for Python If statement ?

Python If statement contains if keyword, condition followed by colon symbol (:), and then the statements of if block with indentation.

Q14-[What is pass in Python?](https://www.360digitalgyan.com/what-is-pass-in-python)

Pass means, no-operation Python statement, or in other words it is a place holder in compound statement, where there should be a blank left and nothing has to be written there.

Q 15- [What Is A Built-In Function That Python Uses To Iterate Over A Number Sequence?](https://www.360digitalgyan.com/what-is-a-built-in-function-that-python-uses-to-iterate-over-a-number-sequence)

Range() generates a list of numbers, which is used to iterate over for loops.

The range() function accompanies two sets of parameters.

range(stop)

stop: It is the no. of integers to generate and starts from zero. eg. range(3) == [0, 1, 2].

range([start], stop[, step])

Start: It is the starting no. of the sequence.

Stop: It specifies the upper limit of the sequence.

Step: It is the incrementing factor for generating the sequence.

Q 16- What is lambda in Python?

anonymous function means that a function is without a name. As we already know that def keyword is used to define the normal functions and the lambda keyword is used to create anonymous functions. lambda arguments: expression.

Q17- Mention what are the rules for local and global variables in Python?

Local variables: If a variable is assigned a new value anywhere within the function's body, it's assumed to be local.

Global variables: Those variables that are only referenced inside a function are implicitly global.

Q18- What is TKIner ?`

 The Tklner is the library of Python. It is one of the toolkits for developing the GUI.

Q19- [Is It Mandatory For A Python Function To Return A Value?](javascript:%20void(0))

 It is not at all necessary for a function to return any value. However, if needed, we can use None as a return value.

Q 20- What Does The Ord() Function Do In Python?

The ord(char) in Python takes a string of size one and returns an integer denoting the Unicode code format of the character in case of a Unicode type object, or the value of the byte if the argument is of 8-bit string type.