① What is the Python language?

A) Python is an interpreted, high-level, object oriented and general-purpose programming language, created by Guido van Rossum and first released in 1991.

② What are the key features of python?

Ⓐ <u>Key features</u> :-

1) Easy to learn and use
2) Expressive language
3) Interpreted language
4) cross-platform language
5) Free and open source
6) object-oriented language
7) Integrated.
8) Large standard library
9) Meaningful programming language.
10) programmer friendly language

③ How python is interpreted language?

A) python is called an interpreted language because it goes through an interpreter, which turns code that be written into the language understood by your computer's processor.

④ How is memory managed in python?

A) Memory management in python involves a private help containing all python objects and data structure. The management of this private heap is ensured internally by the python memory manager.

(5) what is python path ?

A) PYTHONPATH is an environment variable which you can set to add additional directories where python will look for modules and packages. For more installations, you should not set these variables since they are not needed for python to run. Python knows where to find its standard library.

(6) What are the generators in python ?

A) * Generators are used to create iterators, but with a different approach.

* Generators are simple functions which return an iterable set of items, one at a time, in a special way.

* When an iteration over a set of item starts using the for statement, the generator is run.

(7) Does python have oops concepts ?

A) Yes. Python is an object - oriented programming language. It allows us to develop applications using an object oriented approach.

Major principles of object-oriented programming system are given below.

* object
* class
* method
* Inheritance
* polymorphism
* encapsulation
* Data abstraction

(8) Is Python case Sensitive?

A) Yes. Python is case sensitive language. This means Variable and variable are not the same. Always give the identifiers a name that makes sense.

(9) How long can an identifier be in Python?

A) In python, an identifier can be of any length. Apart from that, there are certains rules we must follow to name one:-

* It can only begin with an underscore or a character
* The rest of that can contain anything.
* Python is case-sensitive.
* Keywords cannot be used as identifiers.

* The maximum possible length of an identifier in python is 79 characters.

(10) with python, how do you find out which directory you are currently in?

A) To find out which directory in python you are currently in, use the getcwd() method. Cwd is for current working directory in python. This returns the path of the current python directory.