**Q.1 - Who Developed python programming language?**

Ans- Python programming language was developed by Guido van Rossum in 1989

**Q.2. Which type of Programming does Python support?**

Ans- Python supports object oriented programming and functional programming.

**Q.3. Is Python case sensitive when dealing with identifiers?**

Ans- Yes, Python is case sensitive when dealing with identifiers, such as variable names, function names, and class names.

**4. What is the correct extension of the Python file?**

Ans- “.py” is the correct extension of the python file.

**5. Is Python code compiled or interpreted?**

Ans- Python code is interpreted, not compiled. When you run a Python program, the interpreter reads the code and executes it line by line, rather than compiling it.

**6. Name a few blocks of code used to define in Python language?**

Ans-

* Functions: defined using the "def" keyword
* Classes: defined using the "class" keyword
* If statements: defined using the "if" keyword
* For loops: defined using the "for" keyword
* While loops: defined using the "while" keyword

**7. State a character used to give single-line comments in Python?**

Ans- “#” hashtag character is used to do the single line comment.

**8. Mention functions which can help us to find the version of python that we are currently working on?**

Ans- “sys.version” This returns a string that contains information about the version of Python you're using.

**9. Python supports the creation of anonymous functions at runtime, using a construct called\_\_\_\_\_\_?**

Ans- Lambda Functions

**10. What does pip stand for python?**

Ans- pip stands for "Pip Installs Packages". It is a package manager for Python, used to install and manage packages and libraries

**11. Mention a few built-in functions in python?**

Ans- print(), len(), range(), sum(), min(), max(), abs(), int(), float(), str(), list(), tuple(), set(), dict(), sorted()

**12. What is the maximum possible length of an identifier in Python?**

Ans- No limit but it's a good way to keep it short and descriptive.

**13. What are the benefits of using Python?**

Ans- Python is easy to use, easy to read, dynamically typed and supports functional and object oriented programming.

**14. How is memory managed in Python?**

Ans- which uses a private heap to store all Python objects and data structures. The Python memory manager is responsible for allocating and freeing memory

**15. How to install Python on Windows and set path variables?**

Ans-

* First download installer and run the installer and follow the on-screen instructions to install Python on your system.
* Then open the Start menu and search for "Environment Variables".
* Click on "Edit the system environment variables".
* Click on the "Environment Variables" button.
* Under "System Variables", scroll down and find the "Path" variable, then click "Edit".
* Add the path to the Python installation directory to the end of the "Path" variable.
* Restart your computer to apply the changes

**16. Is indentation required in python?**

Ans- Yes, indentation is required in Python.