1. Who developed Python Programming Language?
ANS) Guido van Rossum developed python programming language

2. Which type of Programming does Python support?
ANS) Python is an interpreted programming language, supporting object-oriented, structured, and functional programming.

3. Is Python case sensitive when dealing with identifiers?
ANS) Yes, Python is a case-sensitive language, i.e., it treats uppercase and lowercase characters differently. This applies to identifiers too. You must avoid using the same name with different cases while naming identifiers.

4. What is the correct extension of the Python file?
ANS) .py extension

5. Is Python code compiled or interpreted?
ANS) Interpreted

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

ANS) Indentation is used to define a block of code in python

7. State a character used to give single-line comments in Python?
ANS) We can write a single-line comment by adding a single # character before any statement or line of code.

8. Mention functions which can help us to find the version of python that we are currently working on?
ANS) The function sys. version can help us to find the version of python that we are currently working on.

9. Python supports the creation of anonymous functions at runtime, using a construct called____
ANS) Python supports the creation of anonymous functions (i.e. functions that are not bound to a name) at runtime, using a construct called lambda. Lambda functions are restricted to a single expression. They can be used wherever normal functions can be used.

10. What does pip stand for python?
ANS)preferred installer program

11. Mention a few built-in functions in python?
ANS)

- print( ) function

- type( ) function

- input( ) function

- abs( ) function

- pow( ) function

- dir( ) function

- sorted( ) function

- max( ) function

- round( ) function

- divmod( ) function

- id( ) function

- ord( ) function

- len( ) function

- sum( ) function

- help( ) function

12. What Is the maximum possible length of an identifier in Python?
ANS) An identifier can have a maximum length of 79 characters in Python

13. What are the benefits of using Python?
ANS)

1. Easy to Learn and Use

2. Mature and Supportive Python Community

3. Support from Renowned Corporate Sponsors

4. Hundreds of Python Libraries and Frameworks

5. Versatility, Efficiency, Reliability, and Speed

6. Big data, Machine Learning and Cloud Computing

7. First-choice Language

8. The Flexibility of Python Language

9. Use of python in academics

10.   It is interpreted

14. How is memory managed in Python?

ANS) Memory management in Python involves a private heap containing all Python objects and data structures. The management of this private heap is ensured internally by the Python memory manager.

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

ANS) In the section entitled User Variables, double-click on the entry that says Path. Another window will pop up showing a list of paths. Click the New button and paste the path to your Python executable there. Once that's inserted, select your newly added path and click the Move Up button until it's at the top.

16. Is indentation required in python?

ANS) Indentation refers to the spaces at the beginning of a code line. Where in other programming languages the indentation in code is for readability only, the indentation in Python is very important. Python uses indentation to indicate a block of code.