Assignment

of rate on the con-

I) What are the datatypes of python? Explain

A) Numbers: Number datatypes store numeric value
Number Objects are created when you assign a value
to them

2. Strings: Strings in Python are identified as a Contiguous set of characters represented in the Quotation marks. Python allows either pair of single Or double quotes.

3. Lists: These are the most Versafile of python's -Compound data-types. A list contains items seperate, by commas & enclosed within square brackets ([])

4. Tuples: A tuple is another sequence datatypes that is similar to the list. A tuple consists of anumber of values seperated by commons.

5. Dictionary: Python's dictionaries are kind of hash-table types. They work like associative arrays or hashes found on pert & consist of keyvalue pairs. Or hashes are enclosed within curly braces.

2) Explain history of Python.

A) In late 1980's history was about to be written. If was that time when working on Python started. Soon after that, Guido van Rossum begin doing its application based work in December of 1989 at CWI

the programming language Python is said to have succeeded in ABC Programming language which hand the analysing with Amie had the storage off. acception handling He had already helped to coeate ABC but ciked most of the features.

The inspiration for the name came from BBC of IV show-Python flying as the was big fan of the to show and also he wanted in a uneque Exstightly mysterious name for his in seration so here we named it python; He was the "Benevolent dicotor for life". Until he stepped down from the position as the leader on 12th July 2018. For quite sometime he used to work for google, but currently he is working out doop box.

The language was released in 1991, it had alot fewer codes to approved compared to Java, C++&C. Its main objective is to provide code readabily. and advanced developes productivity. When it was repased it had more than enough capability to Provede classes with inheritance, Ecome datatypes exception handling El-functions.

3) Explain operators in Python.

NOPERATORS are special symbols that represent computations like addition & mutiplications The value the operator is applied to are called Operands.

The operators t, -, *, 1, pertoon addition, subtrate of the operators of the exponentation as in p. The operators 1/ En exponentation as infollar 72.0132 -> hour *60+ minute -1 hours -1 -> minute 160 -> 50 x 2 24) Explain features of Python? t -> (5+9)*(15-7) (A) 1. Easy to learn & USE: c> Python is easy to learn & use it is developer 3 friendly Echigh level programming language. (2. Expressive language: 1-> Python language is more expressive means that 494 FG more understandable Eseadaide 1:3. Interpreted language: on Interpreter executes the code cine by line of a 5-time. this makes debugging easy Eithus suitable for , begginners (4.Cross-platform language: Python is facely available can equally andifferent a platforms such as windows, linux, unix etc. 45. Free a Open source: - Python is freely available out official webaddows : The source code is also available.

Object-Oriented:

Python Supposts object, language such concepts
of classes a ni-of classes & Objects come into existence extensible:

It implies that other language such as clot can be used to compile. be used to compile the code Either it can be use d'fartherin our python code.

GUI: Graphical user interfaces can be developed by using Python.

Integrated:

It can be easily integrated with languages the C, C++ JAVA

5) Tustify why Python is intespeted.

Almlika c/c++ etc. Bython is an interpreted language It means that each time a program is oun the Mespreles Checks through the code for estous E then interposets the instalctions into machine readable byte code

Python is interactive, when a statement is entered, Ee is followed by the Return key if appropriate the result will be printed on the scaren, Emmedicitely, in the next line. This is posticularly advantages in debugging process.