Python Programming Fundamentals

1. Getting Started:
1) What is Python?
2) Comparison of Python with other languages
3) Salient feature of Python
4) Execution model of Python
5) Industries using Python
6) Job Trends

2. Introduction:
1) Installing Python
2) Python Installer
3) Python 2 v/s Python 3
4) Indentation in Python

3. Core Python:
1) Data Types and Variables
2) Numbers
3) Comments in Python
4) Strings
5) **Data Structure:**
   (a) List
   (b) Tuple
   (c) Set
   (d) Dictionary
   (e) Comparison of List, Tuple and Set

6) **Programing Construct:**
   (a) Control Structure
   (b) Looping
   (c) User-Defined and library Functions

7) **Input-Output:**
   (a) Basic I/O
   (b) File handling
8) **Object Oriented Python:**
   (a) OOPS Concepts and its Implementation
       (class, object, inheritance, encapsulation, polymorphism)
   (b) Modules
   (c) Standard Modules
9) **Exception Handling:**
   (a) try-except-finally and its use cases

10) Other Useful Topic:
- (a) Lamda Function
- (b) Regular expression
- (c) Logging in Python
- (d) Multithreading in Python
- (e) Command Line Argument
- (f) famous libraries like Numpy, Pandas, Scipy
- (g) famous Development environments like Anaconda, Atom, PyCharm IDE, Python IDLE, Jupyter Notebook.

4. Advance Python:

11) Database:

PDBC (Python Database Connectivity) with SQLite/MySql/Oracle

12) Web application development:

HTML + CSS + JavaScript + *Flask Framework*

Interview Questions discussion with assignments and Mini Project Discussion Based on Real Time Problem

Fee: ₹ 4000/= Only

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