PYTHON (1ST SEM ME) MOST-EXPECTED TOPICS

Master these essential concepts for your exams!

Python Fundamentals

1. Different types of tokens.

2. Rules for naming an identifier.

3. Basic data types.

4. Sequence type data types.

5. Explanation of the following I) string ii) list iii) tuple iv) set v) dictionary

6. If v/s if-else v/s if-elif-else .

7. Traversing string, list and tuple using for loop in python.

8. Variables and their scope: local and global.

9. Different types of variables: class variable, static variable, and instance variable.

10. What is function? Declaration, calling, returning a value from function.

11. How to import a module and a package in python?

12. What is oops in python? Explain the features of oops.

13. Class v/s objects.

14. Constructor v/s destructors

15. Polymorphism: method overloading and method overriding.

16. Inheritance and their types.

17. Need of exception handling. Process of handling exceptions in python using try, except, and else clauses.

18. Errors v/s exception.

19. Different file access modes.

20. Opening and closing a file.

21. Reading and writing to a file.

22. Programs: even-odd, prime number, factorial, string pallindrome, number pallindrome, leap year