

16 MARKS QUESTION

UNIT 1 PYTHON BASICS

1. Python Data Types: Numeric types, Strings, Lists, Tuples, Sets, Dictionaries.
2. Operators in python.

UNIT 2 CONTROL STRUCTURES AND DATA PROCESSING

1. Conditional Execution: if, if else, elif statements.
2. Loops: for, while loops
3. Lists
4. Tuple
5. Dictionary
6. String
7. Set

UNIT 3 FUNCTIONS AND ADVANCED OPERATIONS

1. User Defined Function
2. Function prototype
3. Multi-parameter Functions: Variable-length arguments, *args and **kwargs
4. Functional Tools: map, reduce, filter, zip, enumerate
5. Iterators and Generators

UNIT 4 FILES HANDLING, MODULES, AND PACKAGES

1. File Handling: Reading and writing text files, working with file modes
2. Error
3. Package and Modules
4. Zip Files

UNIT 5 ADVANCED PYTHON MODULES

1. NumPy

2. Pandas
3. JSON Module
4. OS Module
5. Datetime Module

Program:-

1. Swpping Two Numbers.
2. Distance between two numbers.
3. Linear Search
4. Binary Search
5. Sorting Programs-Bubble ,Selection , Insertion , Merge sort.