

Vivekanand College, Kolhapur (Autonomous)

Dept. of Computer Science

Python Question Bank: - SEM II

List

- What is List? Explain basic operations in list (len ,+ ,* ,in ,not in).
- Explain list methods (append, insert, count, remove, pop, reverse).
- Explain list insertion, removal
- Explain iteration in List using for with Example.

Tuple:

- What is tuple? Explain operations on tuple(len,+,* ,in ,not in) with examples
- Explain methods in tuple(del,max,min) with examples
- Explain iteration in tuple.
- Explain mutable and immutable object.
- Explain updation and deletion in tuple with example.

Dictionary:

- What is dictionary? Explain basics of dictionary with example
- Explain concept of dictionary with key and value with example.
- Explain methods in dictionary. (clear, has_key, Items , keys ,update ,values, pop, copy, del, popitem) with examples.
- Explain dictionary with its operations.(retrieve a value, inserting or updating a value , remove or delete a key-value pair, test or verify for existence of a key) . Demonstrate with example.
- Explain properties of dictionary keys with example..
- Explain mutable and immutable object concept with list, tuple and dictionary.

Function:

- Explain function definition and calling with example.
- Write a note on return statement with example..
- Explain types of function with example(user defined, built in).
- Explain anonymous function lambda with example.

- Explain scope of variable (local and global)

Module:

- Explain working of pow (), sqrt (), abs (), floor ()
- Explain math module with two functions.
- Explain module. How to import it?
- Write a note on module.
- Explain functions of module (locals(), locals(), reload())
- Explain time module with example.
- Explain random module with example.

Searching & Sorting:

- Explain linear search.
- What is sorting? Explain any two methods.
- What is searching? Explain any two methods with algorithms.
- Write a note on efficiency of algorithms.

File Handling:

- What is file in python? Explain various modes in python file? How to read and write file.

Note: Program questions will be asked on list, tuple, dictionary, searching and functions. For each question syntax and examples are required.