

## Unit I: -

### 2022-23(CT)

1. Explain any two sequential data types in python with proper example.
2. Write a program to find largest of three numbers without using max() function.
3. With suitable examples explain the membership and identity operators.

### 28 Jul 2022

1. What is variable? What are the rules and conventions for declaring a variable?
2. Explain in detail the identity and membership operators in python with appropriate example.
3. What is the output of the following expressions
  - a)  $54//17$
  - b)  $-17//10$
  - c)  $2==3-1$
  - d)  $4+5*3//5$
  - e)  $[1,2,3,4,5][-1]$
  - f)  $(1,2,3)*3$

### 10 Nov 2022

1. What are list in python? How to define and access the elements of list?
2. Discuss the int(), float(), str() type conversion functions with examples.
3. Write a python program to convert height in feet and inches to cm. [1 feet = 12 inch and 1 inch = 2.54 cm] (Sample input: 2 feet 7 inch Sample output: 78.74cm)

### 15 Jul 2023

1. What are lists in python? What is the difference between the list methods *append* and *extend*? Explain with suitable example.
2. Explain python logical operators with suitable example.
3. Write a python program that interchanges the first and last character of a given string.

## **Unit II:-**

**2022-23**

1. With suitable program explain the working of while loop.
2. Explain the following dictionary methods.
  - a) dict.clear()
  - b) dict.items()
  - c) pop()
  - d) dict.copy()
3. Write a program to find sum of digits in the string (Read a string alphabets and digits).

**28 Jul 2022**

1. What is the purpose of else clause in a loop? Explain how else works with while and for loops, with examples.
2. Explain the use of break and continue statement in for loop with suitable examples.
3. Write a program to add digits of a number using while loop.

**10 Nov 2022**

1. Difference between continue and pass statements.
2. What are the different loops available in python? Explain in brief.
3. Write a program to display the Fibonacci sequence up to nth term where n is provided by the user.

**15 Jul 2023**

1. Explain if elif else statement in python with syntax, flowchart and example?
2. Write a program to display the Fibonacci sequence up to nth term where n is provided by the user.
3. Write a python program to count the number of vowels in a string provided by the user.

### **Unit III:-**

**28 Jul 2022**

1. What is the purpose of else clause in a loop? Explain how else works with while and for loops with examples.
2. Explain the use of break and continue statement in for loop with suitable examples.
3. Write a program to add digits of a number using while loop.

**10 Nov 2023**

1. Differentiate between continue and pass statements.
2. What are the different loops available in python? Explain in brief.
3. Write a program to display the Fibonacci sequence up to nth term where n is provided by the user.

**15 Jul 2023**

1. Describe function with default arguments with suitable program.
2. Explain how to implement multiple inheritance in python.
3. Write a program to find the factorial of given number without recursion and with recursion.

## **Unit IV**

**28 Jul 2022**

1. Discuss the following list functions.
  - a) Len()
  - b) Sum()
  - c) Any()
  - d) All()
  - e) sorted
2. How to handle an exception using try except block? Explain with the help of a program.
3. Write a python program to check whether a string is palindrome.

**10 Nov 2022**

1. List the various dictionary methods and explain any 3 of them.
2. Explain the except clause with multiple exceptions.
3. Write a program to use max(),min() and sorted() methods in tuples.

**15 Jul 2023**

1. Explain how to create, raise and handle user defined exceptions in python.
2. Write a python function that takes two lists and returns True if they have at least one common member.
3. Write a python program to handle a ZeroDivisionError exception when dividing a number by zero.

## **Unit V**

**28 Jul 2022**

1. Discuss the following methods associate with the file object.
  - a. Read()
  - b. Readline()
  - c. Readlines()
2. Write a python block to create the table StudentInfo with suitable attributes/columns in MySQL and then write a python program to insert some records in the table and fetch all rows from the table.
3. Write a program to append one file into another.

**10 Nov 2022**

1. Describe the different access modes of the file manipulation.
2. Write a python program to create a table and insert some records in that table. Then selects all rows from the table and display the records.
3. Write a program to copy contents of one file into another.

**15 Jul 2023**

1. How to perform open, read, write, and close operations on a text file?
2. Write a program to display content of a text file on the monitor by reading it word by word.
3. Write a python program to create a table and insert some records in that table. Finally selects all rows from the table and display the records. Use suitable names for data base and table.