

Time : 3-00 Hours]

**Instructions:**

- Write both the Sections in the separate answer book.
- Both Sections having equal weightage.
- Draw Diagrams wherever necessary.
- Make Assumptions wherever necessary.

**SECTION – I****Q-1 Explain the following with an appropriate example:**

09

- ✓1. What is lambda expression? Write syntax of "lambda" function to multiply two variables ( x & y).
- ✓2. What do you mean by arbitrary argument in function? How we can achieve it.
- ✓3. What is recursion? Give an example?

**Q-2 Attempt the following :**

08

1. What is exception handling? Explain different blocks available in python for handling exception.
2. What do you mean by Slicing ? Explain the concept of string slicing with example.

**OR****Q-2 Attempt the following :**

- ✓1. What is function? How you can define function in python and call function. How you can return values from a function in python?
- ✓2. What is set? Explain different mathematical notation of set.

**Q-3 Attempt the following:**

08

- ✓1. What is list? Explain different methods of list with an example.
- ✓2. What is array? How we can define and use the array using Numpy module.

(P.T.O)

distinct

## SECTION - II

- Q-4 Explain the following with an appropriate example.** 09
- ✓1. Does method overloading support in python? If No give justification. If yes write way to achieve it?
  - ✓2. Define and write about Method Resolution Order.
  - ✓3. What do you mean by Duck typing philosophy of Python?
- Q-5 Attempt the following: (Any Two)** 08
1. Explain the use of assert and raise statement.
  - ✓2. What is the use of with statement? What is the advantage of opening file using with statement?
  - ✓3. What is PVM? How it works?
- Q-6 Write short answer on following: (Any Four)** 08
- ✓1. Binary file modes
  - ✓2. seek()
  - ✓3. Pickle
  4. mmap
  - ✓5. Logging the Exceptions

\*\*\*-----\*\*\*