## STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086 M.Sc., BIOINFORMATICS **END SEMESTER EXAMINATION APRIL 2019**

SUBJECT: Python

MAX.MARKS : 50 marks

**CODE** : 15BI/PI/PT24

TIME

: 1<sup>1/2</sup> mins

## SECTION - C

## Answer any TWO set of questions. Each question carries 25 marks.

- 1. a. Write a Python program to concatenate N strings
  - b. Write a Python program to check if lowercase letters exist in a string
  - c. Write a Python program to retrieve file properties
  - d. Write a Python function to sum all the numbers in a list.

Sample List: (8, 2, 3, 0, 7)

Expected Output: 20

- 2. a. Write a Python program to get the Python version you are using.
  - b. Write a Python program to convert temperatures to and from celsius, fahrenheit. [ Formula : c/5 = f-32/9 [ where c = temperature in celsius and f = temperature in fahrenheit ]
  - c. Write a Python function that accepts a string and calculate the number of upper case letters and lower case letters.

Sample String: 'The quick Brown Fox'

Expected Output:

No. of Upper case characters: 3

No. of Lower case Characters: 12

- d. Write a Python function to find the Max of three numbers.
- 3. a. Write a Python program to reverse a string.

Sample String: "1234abcd"

Expected Output: "dcba4321"

b. Write a Python program to check whether a file exists. c. Write a Python program to calculate body mass index d. Write a Python program that prints all the numbers from 0 to 6 except 3 and 6. Note: Use 'continue' statement. Expected Output: 0 1 2 4 5 \*