## FACULTY OF SCIENCE

### B.Sc. VI-Semester (CBCS) Examination, May / June 2019

Subject : Computer Science : (G : Python-2)

Paper – VII   (SEC – 4)

Time : 1½ Hours                                                    Max. Marks: 40

Note : Answer ALL the questions.

### PART – A (2 x 5 = 10 Marks)
### (Short Answer Type)

1  (a) Explain five methods to process matrices with examples.

OR

(b) Explain formatting strings with syntax and example.

2  (a) Explain functions as First Class Objects with example.

OR

(b) What is a List? Explain briefly creating lists using range () function.

### PART – B (2 x 15 = 30 Marks)
### (Essay Answer Type)

3  (a) Explain various functions to create arrays in numpy with syntax and example. Write a program to reshape 1D array into 2D.

OR

(b) List the methods to find substring. Write a program to Search for a String.

4  (a) (i) Explain Positional Arguments and keyword arguments with an example.
       (ii) Write a program to solve towers of Hanoi using recursion.

OR

(b) Define Dictionary. Write a program to convert List into Dictionary.

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