Dr VS Krishna Govt Degree College(A)
III B.Sc., V SEMESTER – END EXAMINATIONS, 2022 – 2023
ComputerScienceREVISEDSYLLABUSw.e.f.2022-23
(PYTHON FOR DATA SCIENCE)

Time: 3 Hours   MODEL PAPER -7C   Max. Marks: 75

SECTION – A

Answer any FIVE of the following questions: [5 X 5 = 25 Marks]

1. Write in brief about any five libraries in Python.
2. Write the rules for choosing names of variables.
3. How to declare a constructor method in python? Explain.
4. Differentiate between an error and exception.
5. What are the different operations that can be performed on a list?
6. Explain about Computing Descriptive Statistics.
7. Differentiate between Series and DataFrame.
8. What is an Outlier? How to detect Outliers in Python.

SECTION – B

Answer the following questions: **[5 X 10 = 50 Marks]**

9. A) Explain the different string formats available in Python with examples.
   > Or
   B) Illustrate the different types of control flow statements available in Python.
10. A) List the features and explain about different Object Oriented features supported by Python.
    > Or
    B) Explain the concept of Data Abstraction with an example.
11. A) Write a python program to describe different ways of deleting an element from the given List.
    > Or
    B) Write a function which receives a variable number of strings as arguments. Find unique characters in each string.
12. A) Write a program to do arithmetic operations with NumPy Arrays.
    > Or
    B) Write a program using Pandas series.
13. A) Explain the concept of handling missing data using Python
    > Or
    B) Write the programs to plot using Line Plots, Bar Plots, Histograms using pandas.