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

Time: 3 Hours   MODEL PAPER -6C   Max. Marks: 75

SECTION – A

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

1. What is Data Science?
2. How to create Dictionaries using Python
3. What is Bayesian Theorem
4. Explain about the Normal Distribution
5. How to handle data in Data Science
6. What is the Curse of Dimensionality
7. What are the assumptions of the Least Squares Model
8. Explain the concept of Backpropagation

SECTION – B

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

9. A)   How to Visualizing Data using Python.

     OR

   b) Write a program to create vectors using Python.

10. A)   Write the procedure to estimate the Gradient.

     OR

   B) Explain the Statistical Hypothesis Testing using an example.

11. A)   What Is Machine Learning? Explain the concept of Over fitting and under fitting of data.

     OR

   B) Explain the concept of Dimensionality Reduction.

12. A)   Explain the concept of K-Nearest Neighbors classifier with an example

     OR

   B) Explain the concept of Simple Linear Regression.

13. A)   What Is a Decision Tree?

     OR

   B) Explain the idea behind the clustering with an example.