

Special Assignment in lieu of Semester End Practical Examination 2021

B.Sc. (Hons.) Computer Science Semester-VI

Paper Code: **32347608**

Paper Name: **Introduction to Data Sciences**

SET-1

Max. Marks [25]

1. Use the ***“LifeCycleSavings”*** built-in dataset to plot beautiful graphs and find meaningful insight about the dataset. You may draft questions yourself and summarize the results.

You will be marked for

[10]

- a. Creativity
- b. Presentation
- c. Originality
- d. Summarization of results

2. Download the file **Set1.csv** and write the correct code for each of the following:

[15]

- I. Read the contents of a file.
- II. How will you ensure that the header of the table always exists?
- III. Count of the number of records in the file
- IV. View the data in a tabular format
- V. Group the data by Locality
- VI. Use ggplot() to create a boxplot depicting the distribution of disasters by year
- VII. Identify the outliers, if any
- VIII. Create a facet map that shows total acres affected in each locality
- IX. Have the number of disasters increased or decreased in the past few decades? Plot the trend
- X. Summarize the results
- XI. Find the average time taken to overcome a disaster
- XII. Create a new column Month_of_year that represents the month of the year that disaster started
- XIII. Group the data by month and summarize
- XIV. Identify the fields where z-test could be performed
- XV. Run the test and elaborate the results