1. Explain the process of plotting a graph using different layers of ggplot2 in detail
2. Explain how to create following plots using ggplot2 with example

a) jitter plot b) scatter plot

3) Explain the process of generating the Word Clouds in R

4) Write a short note on:

a) waffle charts in R

b) word cloud in R

5) Explain Important Functions of plotly package in R.

6) Explain the structure of shiny app in detail

7) Explain the user interface section and server section of shiny app in detail.

8) Give the syntax for following functions of shiny package in R:

a)actionButton() b)checkboxGroupInput()

c)textInput() d**) textOutput()**

**9) a)** Write and explain the different packages used for creating maps in R.

1. Explain Plotting Simple Features (sf) with Plot

**10)a)** List the standard Shiny widgets.

b) Give the features of plotly package in R.