**Assignment of Data Visualization with Dash & Plotly**

1. Matplotlib can be used to create charts, graphs online as well.

The statement is:

a. True

b. False

Ans: b

2. In Python few popular plotting libraries are:

(Select the correct options)

a. Plotly

b. ggplot2

c. ggplot

d. Lattice

e. Seaborn

Ans: a, b, e

3. Plotly is not used in:

a. Java

b. R

c. Julia

d. Matlab

Ans: a

4. What are the APIs is used by Plotly in Python?

Ans: 1. Object-oriented API 2. Data-driven API 3. Plotly Express API

5. scatter\_geo () is imported from:

a. plotly.express

b. plotly.grpah\_objects

Ans: a

6. Dash is a productive Python library for building web applications.

The statement is:

a. True

b. False

Ans: b

7. Dash is written on top of

a. Flask

b.Plotly.js

c.React.js

d.Node.js

(Choose the wrong one.)

Ans: a, b, c

8. Interactive user interfaces are implemented by:

a. Dash\_core\_components

b. Dash\_bootstrap\_components

c. Dash\_html\_components

(Choose the correct one.)

Ans: a

9. Which of these is not a Dash HTML component?

a. Area

b. Address

c. Markdown

d. Mark

Ans: c

10. Main two components of a Dash application are:

a. Layout, Callbacks

b. Interactivity, Outputs

c. Layout, Interactivity

d. Inputs, Callbacks

Ans: c

**Coding Assignment:**

**Input**: Fetch the iris dataset from Kaggle.

**Output**: make a dashboard using those data.

Keep a dropdown to take inputs for the interactive graphs(ex: sepal length, petal length, sepal width, petal width).

Try to implement the following in a Dashboard:

1. Scatter plot

2. Bar plot

3. Bubble chart