


RAN-2408000602031001

F.Y. B.Com. (Data Science) (Sem. - II) Examination November - 2025
Python Libraries for Data Visualization : Matplotlib and Seaborn (TH)

[Total Marks: 25

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
 Fill up strictly the above details on your answer book.

Seat No.:

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Student's Signature

Q. 1. Answer the following in short. (Any 5) (10)

1. What is the purpose of using Python libraries?
2. How do you import a library in Python? Write an example.
3. Define data visualization and its role in data science.
4. Name any two commonly used data visualization tools in Python.
5. What is the difference between a line plot and a bar chart?
6. Write the command to install Seaborn using pip.
7. What function is used to display a graph in Matplotlib?

Q. 2. Answer the following in detail. (Any 3) (15)

1. Explain the importance of Python standard libraries and give two examples.
2. What are the different types of data visualization techniques? Explain any two with examples.
3. Explain how to create a bar chart using Matplotlib? Write a simple Python program.
4. Explain how to create a histogram using Seaborn? Explain with a Python example.
5. Compare the features of Matplotlib and Seaborn with examples.

OR

Q. 2. Answer the following in detail. (Any 3) (15)

1. Write a short note on the advantages and disadvantages of data visualization.
2. Explain how to create a scatter plot using Matplotlib with an example.
3. What is the difference between Matplotlib and Seaborn? Explain with examples.
4. Name any four categories of plots in Seaborn and describe their uses.
5. Explain the data visualization workflow in data science.