

**2408000602031001**  
**EXAMINATION FEBRUARY-MARCH 2024**  
**BACHELOR OF COMMERCE**  
**(SECOND SEMESTER) (NEP)**  
**MINOR - PYTHON LIBRARIES FOR**  
**DATA VISULIZATION : MATPLOLIB &**  
**SEABORN THEORY - LEVEL 3**

[Time: As Per Schedule]

[Max. Marks: 25]

**Instructions:**

**1. Fill up strictly the following details on your answer book**

- a. Name of the Examination : **BACHELOR OF COMMERCE (SECOND SEMESTER) (NEP)**
  - b. Name of the Subject : **MINOR - PYTHON LIBRARIES FOR DATA VISULIZATION : MATPLOLIB & SEABORN THEORY - LEVEL 3**
  - c. Subject Code No : **2408000602031001**
2. Sketch neat and labelled diagram wherever necessary.
  3. Figures to the right indicate full marks of the question.
  4. All questions are compulsory.

Seat No:

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Student's Signature

**Q.1 Answer the following in short. (Any 7)**

**7**

1. List out any 4 standard Python libraries.
2. Define Data Visualization.
3. Write a command to import pyplot module from the Matplotlib library?
4. List out types of graphs supported by Matplotlib library.
5. What is Seaborn?
6. Write down two advantages of Data Visualization.
7. How we can use Python library in our program?
8. Define the term pipeline.

9. Briefly explain style module of Matplotlib.

10. Write any 2 advantages of Seaborn.

**Q.2 Answer the following question.**

**6**

1. Explain Types of Data Visualization.

**OR**

**Answer the following questions. (3 Marks Each)**

**6**

1. Explain bar chart in python with suitable example.

2. Differentiate between Matplotlib and Seaborn.

**Q.3 Answer the following question.**

**6**

1. Write a python code that performs any 5 common mathematical functions.

**OR**

**Answer the following questions. (3 Marks Each)**

**6**

1. Explain subplot() in python with example.

2. How to import and use Seaborn? Explain with example.

**Q.4 Answer the following questions. (Any 2)**

**6**

1. What is the importance of python libraries in data science?

2. Explain process of Data visualization.

3. Explain the Architecture of Matplotlib.

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