



ADITYA DEGREE COLLEGE

ANDHRA UNIVERSITY, AP
MID-I EXAMINATION
II BSC-DATA SCIENCE

DATA VISUALIZATION USING PYTHON

Max Marks: 60M

DATE: 06-2-2025

Time: 3 HOURS

SECTION - A

ANSWER ANY FIVE FROM THE FOLLOWING

5X4=20M

1. Explain the data science process with an example.
2. Difference between Matplotlib and Seaborn libraries.
3. Discuss about web scraping in detail.
4. Discuss these topics
 - a. Data transformation.
 - b. String manipulation.
5. Write about binary data formats with an example.
6. What is Data loading.
7. Discuss about storage and file formats in detail.
8. How to handle missing values in your Data.

SECTION - B

ANSWER ALL THE FOLLOWING QUESTIONS

4X10=40M

9. a) Define Exploratory Data Analysis (EDA) process.
(or)
b) Discuss about essential python libraries in detail.
10. a) Discuss about Essential Functionalities in python
(or)
b) Explain about various summarizing and computing descriptive statistics.
11. a) Discuss about reading and writing data in text formats in detail.
(or)
b) Why we are using python for data analysis rather than other languages.
Mention those reasons.
12. a) Explain about data structures in Python.
(or)
b) Discuss about Interacting with web API's.