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Class Roll No..... Enrollment .....

L N C T U

AL-206

B.Tech -II SEM  
MID SEM-I EXAMINATION -[May-2025]

Grading System (GS)

Data Analysis using Python (DAP)

Time: 1½ Hrs.

MM: 20

Q1. Why is Python considered a popular language for data analysis?  
List at least five key features that support data analysis workflows.

OR

Q2 List and describe any five popular Python libraries used in data science. Mention the purpose of each..

Q3 What are scalar types in Python? Explain with examples of each type..

OR

Q4 What are the primitive constructs in Python? Explain with examples how they form the building blocks of a Python program.? (5)

Q5 Explain how lambda functions differ from regular functions.  
Write a lambda expression that returns the square of a number.

OR

Q6 What is exceptions handling in Python. Write code that handles division-by-zero errors using try, except, and finally.

Q7 Write a Python code snippet to open a file named data.txt in read mode and print all its contents.

OR

Q8 Write a Python code to create a tuple containing names of five fruits. Then display the second and fourth fruit using indexing.