# Prelim 1 – Question Paper

Instructions: (1) All questions are compulsory. (2) Answer each main question on a new page. (3) Illustrate your answers with neat sketches wherever necessary. (4) Figures to the right indicate full marks. (5) Assume suitable data if necessary.

## Q1 (10 Marks)

Answer any five of the following (2 marks each): 1. Define data analytics. 2. State two types of probability distributions. 3. What is a pivot table? 4. Explain the difference between a bar chart and a histogram. 5. Write the Python command to save a plot in Matplotlib.

## Q2 (12 Marks)

Explain types of data analytics with examples.

## Q3 (12 Marks)

Explain box plots and construct one for {6,7,8,9,10,11,15}.

## Q4 (12 Marks)

Describe the process of creating an Excel dashboard with pivot tables and charts.

## Q5 (12 Marks)

Explain the use of pie charts and how to format them.

## Q6 (12 Marks)

Write a Python program to plot a line chart and bar chart of two series.