## 2024

## ECONOMICS — HONOURS — PRACTICAL

Paper: SEC-2P

[Introductory Statistics and Application (II)]

Full Marks: 50

The figures in the margin indicate full marks.

Attempt question no. 1 and any three questions from the rest.

- 1. Based on the given dataset, here are ten analytical questions which are to be answered using Pivot Tables to gain insights. Then make all these insights clear for visualization using Pivot Charts and Slicers / Timeline.
  - (a) Which product type generates the highest total sales revenue?
  - (b) What is the total sales revenue and average discount given per region?
  - (c) How does the sales revenue and volume vary by country within each region?
  - (d) What is the monthly trend in sales revenue over the years for each region?
  - (e) Which city within each country has the highest sales volume?
  - (f) What is the relationship between discount percentage and average sale price across different product types?
  - (g) What are the top five products by sales revenue in each region?
  - (h) What is the average list price versus average sale price for each product type?
  - (i) Which regions have the highest and lowest profit margins?
  - (i) How does sales performance change over time?
- 2. For the given dataset, draw the Lorenz Curve and then calculate the Gini Coefficient.
- 3. (a) Apply Conditional Formatting, for the given data, highlight those cells where Sales > 500 and Profit < 0.
  - (b) Using the given sales data, apply Advanced Filters with respect to Country: France, Segment: Corporate, Ship Mode: Priority, Profit > 100.

Please Turn Over

5+5

5+5

- 4. For the given dataset,
  - (a) Use appropriate logical formula to check whether the student has passed or not in Economics. Criteria: Marks ≥ 40.
  - (b) Grade the students' overall performance using appropriate logical formula.
     Criteria: If the student scored > 250: A, ≥ 200: B, < 200: C.</li>
- 5. For the given dataset, use appropriate statistical formulas for each case and calculate the following 1×10 measures of descriptive statistics:

  Sample size, Mean, Median, Max., 25th Percentile, Standard Deviation, 2nd Largest Value, 3rd Quartile, Skewness and Kurtosis.
- 6. For the given data, draw Histogram, Frequency Polygon and both types of Ogives.
  (3+3)+(2+2)