

25U159

(Pages: 2)

Name :

Reg. No :

FIRST SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025

(FYUGP)

(Regular/Supplementary/Improvement)

CC24UCSC1FM105 - DATA ANALYSIS AND VISUALIZATION THROUGH SPREAD SHEET

(Computer Science - MDC)

(2024 Admission onwards)

Time: 1.5 Hours

Maximum : 50 Marks

Credit: 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Summarize the process of inserting a new cell into an Excel worksheet. [Level:2] [CO1]
2. Differentiate between applying data validation and removing duplicate entries. [Level:2] [CO2]
3. Use What-if Analysis to explore the impact of increasing expenses on net profit. [Level:3] [CO3]
4. Apply filters to a Pivot Chart to display only the sales figures for a specific quarter. [Level:3] [CO4]
5. Summarize how to link data between worksheets in Excel. [Level:2] [CO1]
6. Summarize the importance of formulas in spreadsheets. [Level:2] [CO1]
7. Summarize how conditional formatting can be used to track the highest and lowest performers in a dataset. [Level:2] [CO2]
8. Provide how to use a Pivot Table to calculate the average sales per employee. [Level:3] [CO3]
9. Use Excel to generate a line chart that shows the trend of stock prices over the last year. [Level:3] [CO4]
10. Differentiate between grouping and ungrouping in Excel, giving an example of each. [Level:2] [CO2]

(Ceiling: 16 Marks)

Part B (Paragraph questions/Problem)

Answer *all* questions. Each question carries 6 marks.

11. Describe how logical functions like IF, AND, and OR are used in Excel to create conditional calculations, and give examples of their practical applications. [Level:2] [CO1]
12. Explain the importance of data cleansing in maintaining the accuracy and reliability of datasets, and illustrate how poor data quality can affect decision-making processes. [Level:2] [CO2]

13. Apply the Watch Window tool to monitor key cells in a large worksheet, and demonstrate how it helps track changes across different parts of the spreadsheet. [Level:3] [CO3]
14. Apply form controls such as checkboxes, radio buttons, and dropdown lists to a financial model, and demonstrate how they improve user interaction and data input. [Level:3] [CO4]
15. Clarify the importance of number formatting in Excel, and illustrate how it helps in managing financial or quantitative data. [Level:2] [CO1]

(Ceiling: 24 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

16. Use a detailed Pivot Table from a company's sales data that includes product types, customer regions, and sales agents. Apply different filters and illustrate the use of value fields to calculate total sales, average sales, and percentage contribution of each product type. Demonstrate how a well-structured Pivot Table can help senior management analyze sales performance by region and product type. [Level:3] [CO3]
17. Apply formatting to an Excel chart that represents sales data for three regions. Demonstrate how to modify chart elements such as axis titles, colors, and font sizes. Illustrate how to toggle between showing and hiding the legend and data table for better presentation. [Level:3] [CO4]

(1 × 10 = 10 Marks)
