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Name.....

Reg. No.....

FIRST SEMESTER (CUFYUGP) DEGREE EXAMINATION
NOVEMBER 2025

Computer Science

CSC 1FM 105—DATA ANALYSIS AND VISUALIZATION THROUGH SPREAD SHEET
 (2024 Admission onwards)

Time : One Hour and a Half

Maximum : 50 Marks

Section A

All questions can be answered.

Each question carries 2 marks.

Ceiling 16 marks.

1. How do you merge cells and wrap text in Excel ?
2. How do relative cell references function in Excel ?
3. What is the purpose of the Autosum feature in Excel ?
4. Describe the process of exporting data from Excel to other file formats.
5. Provide an example of how to group and ungroup data in Excel.
6. How do the “Top/Bottom Rules” work in Conditional Formatting within Excel ?
7. How can you filter data in a Pivot Table to focus on specific subsets ?
8. List three types of charts in Excel and explain their uses.
9. What is the role of a data table within a chart in Excel ?
10. How can you print specific sections of a worksheet in Excel ?

Section B

All questions can be answered.

Each question carries 6 marks.

Ceiling 24 marks.

11. With examples, explain the use of the SUM, ROUND, IF, VLOOKUP, and COUNTIF functions in Excel.
12. How can conditional formatting be used to visually highlight data in Excel ?

Turn over

13. Describe how to record and run macros in Excel, and explain how macros can help automate repetitive tasks.
14. What is a Pivot Chart in Excel, and how does it differ from a standard chart ?
15. Explain the functions of the Split, Freeze, and Hide options in Excel.

Section C

Answer any one of the following question.

The question carries 10 marks.

16. With examples, explain the differences between relative, absolute, and mixed references in Excel.
17. Discuss the use of macros in Excel and explain why it is important to protect worksheets and workbooks.

$(1 \times 10 = 10 \text{ marks})$