

Roll No:

Date: __/__/__

St. Claret College

Autonomous, Bengaluru

UG END SEMESTER EXAMINATION-NOV 2025
BCA 1 SEMESTER
CA 1525: DATA ANALYTICS USING SPREADSHEET

12

TIME: 3 hours.

MAX. MARKS: 80

This paper contains TWO printed pages and FOUR parts

Instructions:

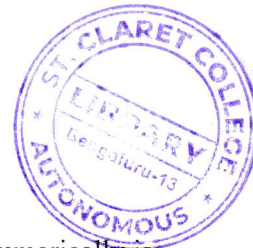
1. Verify and ensure that the question paper is completely printed.
2. Any discrepancies or questions about the exam paper must be reported to the COE within 1 hour after the examination.
3. Students must check the course title and course code before answering the questions.

PART-A

Answer ALL questions. Each answer carries ONE mark.

[1 x 10 = 10]

1. The intersection of a row and column in Excel is called a:
a) Range b) Cell c) Sheet d) Table
2. Which symbol is used to begin a formula in Excel?
a) & b) = c) @ d) \$
3. The feature that allows data to be sorted alphabetically or numerically is:
a) Filter b) Sort c) Pivot d) Chart
4. Which of these is not a cell reference type?
a) Relative b) Absolute c) Conditional d) Mixed
5. The =TODAY() function returns:
a) Current time b) Current date c) System date d) None
6. Which function can be used to combine text from two cells?
a) CONCATENATE b) LEFT c) VALUE d) FIND
7. A PivotChart is used for:
a) Cleaning data b) Charting PivotTable data c) Writing formulas d) Merging data
8. Which What-If Analysis tool can show results for multiple input combinations?
a) Goal Seek b) Scenario Manager c) Data Table d) Solver
9. Power Query follows which process?
a) Encrypt-Transfer-Load b) Extract-Transform-Load
c) Evaluate-Test-List d) Expand-Turn-Loop
10. To prevent modification to specific cells, we should:
a) Hide rows b) Freeze panes c) Lock cells and protect sheet d) Use AutoFill



PART-B

Answer any **FIVE** questions. Each answer carries **TWO** marks.

[2 x 5 = 10]

11. Write the formula for the following:
Multiply the value in cell B2 by 8, subtract 3 from the result, and then add the value in cell C2.
12. Write two examples of date and time functions.
13. What is the use of the VLOOKUP function?
14. What is a PivotChart? Give examples.
15. Explain the use of slicers and timelines in dashboards.
16. Name any two actions restricted when a worksheet is protected.
17. What is meant by *What-If Analysis* in Excel?

PART-C

Answer any **FOUR** questions. Each answer carries **FIVE** marks.

[4 x 5 = 20]

18. Explain common spreadsheet error messages in detail. (Any five)
19. Write a short note on Statistical functions in Excel with examples. (Any 5)
20. Explain any five chart types in Excel with examples.
21. Why are data security and privacy important ethical considerations in Analytics?
22. The table below shows a student's marks in two subjects.
The goal is to achieve an average of 80 marks across all three subjects.
Describe the steps to determine the marks the student should score in Subject 3 using Goal Seek.

	A	B
1	Subject	Marks
2	Subject 1	75
3	Subject 2	65
4	Subject 3	
5	Average	

23. Discuss any five advantages of using Power Query for data cleaning and automation.

PART-D

Answer any **FOUR** questions. Each answer carries **TEN** marks.

[4 x 10 = 40]

24. Discuss the importance of spreadsheets in data analysis and decision-making.
25. Explain the functions listed below with examples.
a. SUMIF b. AND c. OR d. SWITCH
26. Describe step-by-step how to create and design a dashboard using Excel.
27. What are the tools available for What-If Analysis in Excel? Explain each with examples.
28. Describe the process of data protection and sharing in Excel workbooks.
29. Explain the steps for creating pivot tables with an example.