

Roll No:

Date: __/__/__

St. Claret College

Autonomous, Bengaluru

UG END SEMESTER EXAMINATION-NOVEMBER 2025

BCA III SEMESTER

CADE 3425B: BASICS OF DATA ANALYSIS USING A SPREADSHEET

12

TIME: 1.5 hours.

MAX. MARKS: 40

This paper contains TWO printed pages and THREE 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. JSON and XML files are examples of which type of data?
a. Structured data b. Unstructured data c. Semi-structured data d. Binary data
2. What is the primary purpose of Data Analytics?
a. To store large amounts of data b. To extract meaningful insights from data
c. To delete irrelevant data d. To create databases
3. Which type of analytics answers the question "What happened?"
a. Descriptive b. Diagnostic c. Predictive d. Prescriptive
4. Which of the following is NOT an example of unstructured data?
a. Audio recordings b. Images and photographs
c. Excel spreadsheets d. Video recordings
5. Which of the following is a key importance of Data Analytics in business?
a. Increasing data storage costs b. Eliminating human judgment completely
c. Reducing the need for databases d. Making data-driven decisions
6. Outliers in a dataset are:
a. Typical values^d b. Extreme values c. Missing values d. Duplicate values
7. Which of the following raises ethical concerns in Data Analytics?
a. Privacy invasion b. Data visualization c. Sampling d. Transformation
8. Which of the following steps removes duplicate or irrelevant data?
a. Data Storage b. Data Mining c. Data Cleaning d. Data Collection
9. Netflix uses data analytics mainly for:
a. Customer billing b. Recommendation systems
c. Employee attendance d. Website design only
10. Which of the following is an example of unstructured data?
a. Excel Sheet b. Video file c. SQL Table d. Relational Database



PART-B

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

[5 x 2 = 10]

11. Define structured data.
12. What is data analytics? Mention its core objective in a business context?
13. Evaluate how prescriptive analytics is efficient than diagnostic analytics?
14. Describe data collection with an example.
15. Discuss any two data visualization tools.
16. What is the potential negative impact of not handling missing data during analysis?
17. Briefly explain the Ethical Consideration of Bias in data analytics.

PART-C

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

[4 x 5 = 20]

18. Explain the core objective and distinguishing feature of descriptive analytics, predictive analytics, and prescriptive analytics.
19. Differentiate between Structured, Unstructured, and Semi-structured data with examples for each.
20. Illustrate the process of data analysis.
21. Discuss major industry-specific applications of data analytics in finance, marketing, and operations.
22. Explain the significance of data cleaning and transformation in the analytics workflow.
23. Explain the different Data Collection Methods with suitable examples.
