

A-0833

Total Pages : 3

Roll No.

CDSA-101

**Foundation of Data Science and Data Analysis
Tools**

Examination 2026 (Feb.)

Time: 02:00 hrs

Max. Marks: 100

Note : This paper is of Hundred (100) marks divided in to two (02) Section A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

Section-“A”

(Long Answer - type Questions)

Note:- Section ‘A’ contains Five (05) long-answer-type questions of twenty six (26) marks each. Learners are required to answer any two (02) questions only.

(2x26=52)

P.T.O

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1. Describe the basic features of Microsoft Excel used for formatting, data analysis, and introductory statistical functions.
2. Explain the concept of Data Science. Discuss its components and importance in the modern digital world.
3. Discuss real-world applications of Data Science. Explain any two case studies.
4. Describe data preparation techniques in MS Excel, including importing data, filtering sorting, and validation.
5. Explain the role of Data Analytics in decision-making process. Describe the concept of Big Data in your own words.

Section-“B”

(Short -answer - type questions)

Note:- Section ‘B’ contains eight (08) short-answer type questions of twelve (12) marks each. Learners are required to answer any Four (04) questions only.

(4x12=48)

1. Explain the meaning of Data Science and describe its basic purpose in your words.

2. What is Data Visualization? Explain using suitable example, how Data visualization helps in understanding data in better ways.
3. Explain SPSS, and also describe at least one way it is used in data analysis.
4. Explain how Microsoft Excel is useful for basic data handling.
5. What is Jupyter Notebook? Why it is used in data analysis?
6. Explain any two types of jobs available in the Data science field and their nature of work.
7. Define the concept of data filtering in Excel and how it makes data analysis easier for us?
8. Describe any two major components of Data Science and explain why they are important.
