

25U266

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Name :

Reg. No :

SECOND SEMESTER UG DEGREE EXAMINATION, APRIL 2026

(FYUGP)

(Regular/Supplementary/Improvement)

CC24UCSC2MN102 - INTRODUCTION TO DATA SCIENCE

(Computer Science - Minor Course)

(2024 Admission onwards)

Time: 2.0 Hours

Maximum: 70 Marks

Credit: 4

Part A (Short answer questions)

Answer *all* questions. Each question carries 3 marks.

1. Explain steps in data science process. [Level:2] [CO1]
2. Explain Nominal and ordinal. [Level:2] [CO1]
3. Explain sample. [Level:2] [CO1]
4. Explain the steps in Exploratory Data Analysis. [Level:2] [CO1]
5. Discuss Kurtosis. [Level:2] [CO2]
6. Explain Multivariate graphical EDA. [Level:2] [CO2]
7. Demonstrate the concept of Area chart with examples [Level:3] [CO2]
8. Explain Confusion Matrix. [Level:2] [CO4]
9. Explain applications of supervised learning. [Level:2] [CO4]
10. Explain Advantages of Naive Bayes for Spam Filtering. [Level:2] [CO4]

(Ceiling: 24 Marks)

Part B (Paragraph questions/Problem)

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

11. Explain Issues and challenges in Data Science. [Level:2] [CO1]
12. Describe Data Cleaning. [Level:2] [CO3]
13. Interpret Data Integration. [Level:2] [CO3]
14. Illustrate the concept of PCA. [Level:2] [CO3]

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| 15. Discuss Linear Regression in machine learning. | [Level:2] [CO4] |
| 16. Explain Model Training. | [Level:2] [CO4] |
| 17. Discuss Regression. | [Level:2] [CO4] |
| 18. Discuss K-means Clustering in machine learning. | [Level:2] [CO4] |

(Ceiling: 36 Marks)

Part C (Essay questions)

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

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| 19. Discuss the concept of data transformation. | [Level:2] [CO3] |
| 20. Describe how the K-NN algorithm works in machine learning. | [Level:2] [CO4] |

(1 × 10 = 10 Marks)
