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THIRD SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025

(CUFYUGP)

BCA3CJ203 / BCA3MN201 Introduction to Data Science

2024 Admission onwards

Maximum Time :2 Hours	Maximum Marks :70

Section A

All Question can be answered. Each Question carries 3 marks (Ceiling : 24 Marks)

1	Define Data Science.
2	Briefly explain the evolution of Data Science.
3	Mention any two roles of a Data Scientist.
4	Give two examples of Data Science applications.
5	What is data cleaning?
6	Define data integration.
7	What do you mean by descriptive statistics?
8	Define correlation.
9	What is multiple regression?
10	What do you mean by supervised learning?

Section B

All Question can be answered. Each Question carries 6 marks (Ceiling : 36 Marks)

11	Explain the key components of Data Science with suitable examples.
12	Discuss different data collection strategies used in data science.
13	Explain the various steps in data pre-processing.
14	Describe the measures of central tendency and dispersion.
15	Explain the role of box plots in data visualization.
16	Illustrate how correlation helps in data analysis.
17	Explain the concept of model evaluation using visualization.
18	Differentiate between supervised and unsupervised learning techniques with examples.

Section C

Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)

19	Discuss in detail the process of data pre-processing with suitable examples.
20	Explain regression models in data science and describe how predictions are made using regression.