

2308000601010002
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF COMMERCE (FIRST SEMESTER)
(NEP & NON NEP)
MAJOR - INTRODUCTION TO DATA SCIENCE - LEVEL 1

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination: **BACHELOR OF COMMERCE (FIRST SEMESTER) (NEP & NON NEP)**
- b. Name of the Subject: **MAJOR-INTRODUCTION TO DATA SCIENCE – LEVEL 1**
- c. Subject Code No: **2308000601010002**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer the following in short. (Any 5)

10

1. Define 3 V's of Big Data.
2. What is Data Discretization?
3. What is Data Science? List out some Data Science tools.
4. List out key data building blocks that are used for establishing a data driven culture?
5. Define linear regression.
6. What is DDDM? Why it is importance?
7. What is the difference between qualitative and quantitative data collection methods?

Q.2 Answer the following questions. (Any 2)

10

1. Write a note on Data Security Issues.
2. What is correlation? Explain with its types.
3. What do you mean by Data Cleaning? Why it is needed in Data Science?

Q.3 Do as directed. (Any 2) 10

1. Write a short note on Descriptive Statistics.
2. Discuss some applications of Data Science in Commerce.
3. How DDDM works in Transportation, Finance and Airline.

Q.4 Answer the following questions. (Any 2) 10

1. What is Big Data? List out some sources of Big Data.
2. What are common challenges in Data Collection?
3. Explain advantages and disadvantages of DDDM.

Q.5 Write a short note on the following. (Any 2) 10

1. Life Cycle of Data Science Project
2. ANOVA
3. Data Pre-Processing
