DS 214 (R-22)

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II/IV B. Tech. DEGREE EXAMINATIONS, AUGUST - 2024

First Semester

DATA SCIENCE

INTRODUCTION TO DATA SCIENCE

Time : **Three Hours** Maximum : **70** Marks

Answer ONE Question from each Unit. 5x14=70 M

All Questions carry equal marks.

UNIT - I

1. a) Define data science. Explain steps involved in data process.

   b) Explain data scientist role in the process.

(OR)

2. Discuss Numpy basics and explain creating ndarrays.

UNIT - II

3. List the features and applications of pandas and explain how to get started.

(OR)

4. Explain data structures of pandas with examples.

UNIT - III

5. a) Explain reading and writing data in text formats.

   b) Explain reading text files in pieces.

(OR)

6. Explain storing and loading data in MongoDB.

UNIT - IV

7. Explain the process of combining and merging data sets.

P.T.O.

(OR)

8. Explain reshaping with hierarchical indexing.

UNIT - V

9. Explain annotations and drawing on a subplot with example.

(OR)

10. Explain plotting functions in pandas with examples.