

UNIT – I

2. (a) Define Data Science and discuss data science components in details. 8
- (b) Illustrate data reporting Vs data analysis in data science. 7
3. Discuss Data Science Process in details with diagrams and examples. 15

UNIT – II

4. (a) Briefly discuss the programming toolkits available in Python for Data Science with suitable examples. 10
- (b) What do you understand by web scrapping ? Discuss web scrapping mechanism to collect data using python library. 5
5. How *Matplotlib* is useful in data visualization in Python ? Discuss Bar, Line and Scattered plotting using *Matplotlib* with suitable examples. 15

UNIT – III

6. What is Methodology in Data Science ? Discuss from Problem to Approach and from Requirements to Collection stage of methodology helpful for data scientists. 15

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7. Discuss the significance of Modeling, Evaluation, Deployments and feedback stages of the data science Projects. 15

UNIT – IV

8. How Data Science tools are useful in election campaign and predicting result in real world ? Discuss in details. 15
9. What do you understand by Business Analytics ? Discuss its usage in business goals achievements. 15

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Roll No.

3343

**B. Tech. 6th Semester (CSE) (Elective - III)
Examination – May, 2023**

DATA SCIENCE

Paper : PEC-CSE-320-G

Time : Three Hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *five* questions in all, selecting at least *one* question from each Unit. Question No. **1** is *compulsory*. All questions carry equal marks.

1. Explain the following :

6 × 2.5 = 15

- (a) Traits or Characteristics of Big Data.
- (b) EDA.
- (c) Data Types in NumPy
- (d) Data Cleansing
- (e) Data science myths
- (f) Clustering

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