

3343

B. Tech. (CSE) (Elective-III) 6th Semester
(G Scheme) Examination,
July-2022

DATA SCIENCE

Paper-PEC-CSE-320-G

Time allowed : 3 hours]

[Maximum marks : 75

Note : Attempt any five questions in all, selecting 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) Components of Data Science
 - (c) Tokenization in NLTK library in Python
 - (d) Data Collections
 - (e) Web scrapping
 - (f) Text Analytics

Unit-I

2. (a) Define Data Science and discuss its needs in the current world of data sources. 8
- (b) Differentiate Artificial Intelligence & Data Science with suitable diagram. 7

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3. Discuss Data Science Process in details with diagrams and examples. 15

Unit-II

4. Discuss the various programming toolkits available in Python for Data Science with suitable examples. 15
5. How *NumPy* is useful in Scientific Computation in Python ? Also discuss arrays & various data types used in *NumPy* library with suitable examples. 15

Unit-III

6. What do you understand by Data Science Methodology ? Discuss methodology from Problem to Approach and from Requirements to Collection in data system. 15
7. Illustrate role of Evaluation, Deployments and Feedback stages of the Data Science projects. 15

Unit-IV

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