- 9 to create a data.txt file with the following basic file modes available. Write a statement What do you mean by file? List out the
- Python file handling is very interesting and useful.
- This is a text file created through python.

Section-D Unit-III

- (a) important in data science? Discuss business science? Why business understanding is What is business understanding in data understand phases and process in detail.
- 9 How to prepared data is used from Modeling to Evaluation?
- (a) preparation? to prepare data from understanding to the five methods of collecting data? How What is the data requirements? What are
- 9 Discuss the following in detail
- Analytic Approach
- Deployment and feedback

Section-E Unit-IV

- ın detail : Discuss the following Application of data science
- Prediction
- Elections
- 9. Discuss the clustering and text analytics Application of data science in detail

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Roll No.:

Total No. of Questions: 9]

[Total No. of Pages: 4

B.Tech. (CSE) 6th Semester (Supplementary) Examination, July-2021

(Elective-III) (G Scheme)

DATA SCIENCE

Paper-PEC-CSE-320-G

Time: Three Hours]

Maximum Marks: 75

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

Note :-Question No. 1 is compulsory. Answer one question from each of the remaining Sections. All questions carry equal marks.

Section-A

- Ξ What are the differences between supervised and unsupervised learning?
- Ξ What is Al? What is use of Al in data science?
- (E) Explain the Myth of data science

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- (iv) Discuss Bar Charts.
- (v) Discuss the various data science 5×3=15

Section-B Unit-I

- (a) What is Data Science? List the differences between supervised and unsupervised learning.
- (b) Define Big Data and explain and discuss the characteristics of Big Data and Applications of Big Data.
- 3. (a) What is Data Preprocessing? Explain and discuss in detail the various steps involved in the Data Preprocessing.
- (b) What is Statistical Modeling and how is it used? What are reasons to learn Statistical Modeling? Discuss important Statistical Techniques in Data Analysis.

Section-C Unit-II

- (a) What is Python Matplotlib? What is Matplotlib used for? What are the basic elements/components of the chart? Discuss the various types of plots with suitable codes.
- (b) What is an array and how is it different from a list? What is the name of the built-in array class in NumPy? Create the following NumPy arrays:

- (i) A 1-D array called zeros having 10 elements and all the elements are set to zero.
- (ii) A 1-D array called vowels having the elements 'a', 'e', 'i', 'o' and 'u'.
- (iii) A 2-D array called ones having 2 rows and 5 columns and all the elements are set to 1 and dtype as int.

5. (a) Plot the following data on line chart:

Friday	Thursday	Wednesday	Tuesday	Monday	Day
600	580	475	350	510	Income

- Write a title for the chart 'The Weekly Income Report'.
- (ii) Write the appropriate titles of both the axes.
- (iii) Write code to Display legends.
- (iv) Display red color for the line.
-) Use the line style-dashed
- (vi) Display diamond style markers on data points

(2)

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