

Total No. of Questions : 4]

SEAT No. :

PC-142

[Total No. of Pages : 2

[6360]-151

T.E. (Computer Engg.) (Insem.)

DATA SCIENCE AND VISUALIZATION (Honors)
(2019 Pattern) (Semester - I) (310501)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

- 1) Answer Q.1 or Q.2, Q.3 or Q.4.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

- Q1) a) What is Exploratory Data Analysis in Data Science process? Explain with suitable example. [6]
- b) What is Unsupervised Machine Learning? Elaborate with suitable example and enlist its applications. [5]
- c) Differentiate between the Structured data and Unstructured data. [4]

OR

- Q2) a) Calculate the mean, median, mode of the following data and comment on skewness of data. 17, 16, 25, 23, 22, 23, 28, 25, 25. [6]
- b) Define Big data? Elaborate how Big Data plays an important role in Data Science? [5]
- c) Define the term supervised Machine Learning and its applications. [4]

- Q3) a) Define Central tendencies with examples. [6]
- i) Mean
- ii) Median
- iii) Mode
- b) Define the statistical terms. [5]
- i) Co-variance
- ii) Standard deviation.
- c) Describe the terms Normalization and Standardization in detail. [4]

OR

P.T.O.

- Q4)** a) Define the terms with appropriate examples. [6]
- i) Continues Distribution
 - ii) Normal Distribution
- b) Define Bayes Theorem with example. [5]
- c) Explain Min-Max Normalization with Example. [4]

