

Total No. of Questions : 5]

SEAT No. :

P-1303

[Total No. of Pages : 2

[6055]-304

T.Y. B.Sc.

COMPUTER SCIENCE

CS - 354 : Foundations of Data Science

(2019 Pattern) (CBCS) (Semester - V)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.

Q1) Attempt any Eight of the following :

[8 × 1 = 8]

- a) List any two application of Data Science.
- b) What is outlier?
- c) What is missing values?
- d) Define variance.
- e) What is nominal attribute?
- f) What is data transformation?
- g) What is one hot coding?
- h) What is the use of Bubble plot?
- i) Define Data visualisation.
- j) Define Standard deviation?

Q2) Attempt any four of the following :

[4 × 2 = 8]

- a) Differentiate structured and Unstructured Data.
- b) What is inferential statistics?
- c) What do you mean by data preprocessing?
- d) Define data discretization.
- e) What is visual encoding?

P.T.O.

Q3) Attempt any two of the following :

[2 × 4 = 8]

- a) Explain outlier detection methods in brief.
- b) Write different data visualization libraries in python.
- c) What is data cleaning? Explain any two data cleaning methods.

Q4) Attempt any two of the following :

[2 × 4 = 8]

- a) Explain 3V's of Data Science.
- b) Explain data cube aggregation method in detail.
- c) Explain any two data transformation technique in detail.

Q5) Attempt any one of the following :

[1 × 3 = 3]

- a) Write a short note on feature extraction.
- b) Explain Exploratory Data Analysis (EDA) in detail.

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