SEAT No. :

P9026

Oct-22/TE/Insem-644

Honors : T.E. (AI ML)

COMPUTATIONAL STATISTICS

(2019 Pattern) (Semester - I) (310301)

Time : 1 Hour]   *[Max. Marks : 30*

Instructions to the candidates :

1) *Answer Q1 or Q2, Q3 or Q4.*

2) *Neat diagrams must be drawn wherever necessary.*

3) *Figures to the right side indicate full marks.*

4) *Assume suitable data, if necessary.*

Q1) a) Differentiate between Univariate, Bivariate and Multivariate Data Analysis. **[6]**

b) What is Dispersion? Explain any two types of Dispersion with example. **[6]**

c) Consider the following data points : **[3]**

17, 16, 21, 18, 15, 17, 21, 19, 11, 23

Calculate the mean and median of the above data points.

OR

Q2) a) What is Histogram? How do you construct Histogram? Differentiate between Bar Graph and Histogram. **[7]**

b) Describe relation between statistics and machine learning. **[8]**

Q3) a) What is lognormal distribution? State and explain the three parameters that defines the shape of the lognormal distribution. **[7]**

b) Write short note on : **[8]**

i) Normal Distribution

ii) Poisson Distribution

OR

P.T.O.

Q4) a) Explain Lognormal and Weighbull with example. **[7]**

b) Define the Exponential distribution. What are different application of Exponential Distribution. Explain the memoryless property of the Exponential Distribution. **[8]**

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