

Total No. of Questions : 4]

SEAT No. :

P-5354

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[6187]-551A

**T.E. (Honor Course) (AI & ML) (Insem.)**  
**COMPUTATIONAL STATISTICS**  
**(2019 Pattern) (Semester - I) (310301)**

*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 side indicate full marks.*
- 4) *Assume suitable data, if necessary.*

**Q1) a)** What is statistics and their types? Also explain importance of statistics. [7]

**b)** Explain Mean, Medium and Mode with examples. [8]

OR

**Q2) a)** Explain Importance of Data Visualization and explain scatter plot and histogram. [8]

**b)** Differentiate between Univariate and Bivariate analysis. [7]

**Q3) a)** Explain continuous distribution and type of continuous distribution. [7]

**b)** Differentiate between Normal & Poisson Distribution. [8]

OR

**Q4) a)** Explain lognormal distribution in detail. [5]

**b)** Define Weibull distribution and explain Weibull probability density function (pdf) in brief. [5]

**c)** Explain the concept of poisons distribution. [5]

