

## [6025]-57

## Q3) Solve any one of the following :

- a) Describe the procedure of one way ANOVA with example.
- b) Discuss the Normal distribution and its applications in statistical analysis.

## Q4) Solve any one of the following :

- a) Explain the important components of a time series. Describe Holt-Winters smoothing procedure.
- b) Differentiate between supervised and unsupervised machine learning with example.

## Q5) Solve any one of the following :

 $[1 \times 10 = 10]$ 

- a) Explain ARIMA model. How does one forecast an ARIMA model in time series analysis?
- b) Critically evaluate linear regression and logistic regression technique.

 $[1 \times 10 = 10]$