

[LN 1018]

OCTOBER 2018

Sub. Code: 2866

M.Sc. BIOSTATISTICS EXAMS
SECOND YEAR
PAPER II – APPLIED MULTIVARIATE ANALYSIS AND TIME SERIES
ANALYSIS

Q.P. Code: 282866

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discriminant analysis and its application to epidemiology.
2. a) Autoregressive models.
b) Moving average method of forecasting.

II. Write notes on:

(10 x 6 = 60)

1. Expected cost of Misclassification rule.
2. Goodness of fit in factor analysis.
3. Difference between hierarchical and non-hierarchical cluster analysis.
4. Factors analysis.
5. Quadratic classification rule.
6. Trend and seasonal components of time series analysis.
7. Simple exponential smoothing in forecasting.
8. ARMA model.
9. Partial auto correlation function.
10. Multiplicative decomposition of time series data.
