

[LP 1019]

OCTOBER 2019

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. Path analysis and its application to epidemiology.
2. Discuss the implication of Time series analysis with specific examples in epidemiological research.

II. Write notes on:

(10 x 6 = 60)

1. Uses of Auto Correlation Function (ACF) and Partial Auto Correlation Function (PACF) plots in determining the parameters of AR and MA models.
2. Uses of Correlogram and Differencing in time series analyses and it's need.
3. Need for transformation in time series analysis.
4. Stationary process in time series.
5. ARMA Model.
6. Difference between hierarchical and non-hierarchical analysis.
7. Quadratic classification rule.
8. Baye's rule in discriminant analysis.
9. Discriminant analysis.
10. Canonical correlation.
