

**SECOND ALLIED PAPER – III – B – BIOSTATISTICS**

UNIT – I

Correlation – different types of correlation – positive, negative, simple, partial, multiple, linear and non linear correlation. Methods of studying correlations.

UNIT – II

Regression, types and methods of analysis. Regression line, Regression equations, Deviation taken from arithmetic mean of X on Y, Deviation taken from the assumed mean.

UNIT – III

Probability theory, applications, analysis.

UNIT – IV

Distribution, types , test for analysis.

UNIT – V

Sampling methods and test for significance – student ‘t’ test. ‘Chi’ square test, analysis of variance.

Reference:

1. R.S.N. Pillai and V.Bagavathi. statistics.
2. S.P.Gupta, Statistical methods.
3. Palanisamy, S. and manoharan, M.1994. Statistical methods for Biologists (Biostatistics). Palani Paramount Publications, Tamil Nadu.
4. Arora, P.N. and Malhan, P.K. 1996. Biostatistics. Himalaya Publishing House, Mumbai
5. Stanton, A.Clantz. Primer of Biostatistics – The McGraw Hill Inc., New York.
6. Sikal and Rohlf. 1973. Introduction to Biostatistics – Toppan co. Japan.