Paper Code: 3321

Third Year T.D.C. Arts Paper – I QUANTITATIVE TECHNIQUES IN ECONOMICS

UNIT - I

Statistics – Definition, Importance, Scope and Limitations of Statistics, Primary and Secondary Data, Methods of Collecting Primary Data, Secondary Data, Classification and Tabulation of Data, Presentation of Data – Diagrams and Graphs.

UNIT – II

Measures of Central Tendency : Mean, Median, Mode, Geometric Mean and Harmonic Mean.

Measures of Dispersion – Range, Mean Deviation, Standard Deviation, Coefficient of Variation, Quartile Deviation, Skewness.

UNIT - III

Correlation- Meaning, Causation & Correlation, Karl Pearson's Coefficient of Correlation, Spearman's Rank Correlation, Probable Error.

Simple Linear Regression- Introduction, Lines of Regression, Estimation of Regression Coefficient and Regression Lines.

UNIT – IV

Time Series – Introduction, Components of Time Series, Measurement of Trends – Methods of Moving Averages and Least Squares.

Index Numbers – Meaning, Significance and Types of Index Numbers, Methods of Constructing Index Numbers- Simple Price Relative Methods and Aggregative Methods.

UNIT - V

Sampling and Types of Sampling, Interpolation – Newton, Binomial and Langrangian Methods, Statistical System in India, National Sample Survey Organisation (NSSO), Central Statistical Organisation (CSO).

Basic Reading List

- Croxton, Crowden and Klein (1971) Applied General Statistics, Prentice Hall of India, New Delhi.
- 2. Gupta, S.C. (1993) Fundamentals of Applied Statistics, S. Chand and Sons, New Delhi.
- 3. Nagar, A.L. and Das, R.K. (1993) Basic Statistics, Oxford University Press, New Delhi.
- 4. Speigal, M.R. (1992) Theory and Problems of Statistics, McGraw Hill Book Co., London.
- 5. Levin and Rubin Statistics for Management, Prentice Hall of India, New Delhi.
- 6. Srivastava, S.C. and Sangy Srivastava Fundamentals of Statistics, Anmol Publications Pvt. Ltd., New Delhi.
- 7. कैलाशनाथ नागर सांख्यिकी के मूल तत्व, मीनाक्षी प्रकाशन, मेरठ।
- 8. सुदामा सिंह, ओ.पी. सिंह एवं वाई.के. सिंह अर्थशास्त्र गणित एवं प्रारम्भिक सांख्यिकी, राधा पब्लिकेशन, नई दिल्ली।
- 9. राव, गुप्ता एवं सुथार व्यावसायिक सांख्यिकी।

(Jeli?