

FUNDAMENTALS OF SOCIAL STATISTICS

UNIT 1:

Statistics – Definition, Objectives, Need, Classification of data – Meaning, Objectives, types, formation of discrete, continuous, relative, bivariate frequency distribution. Tabulation of data – Meaning, types, parts of a table, difference between classification and tabulation, General rules of tabulation.

UNIT 2:

Measures of central value – Introduction, requisites of a good average, types – Arithmetic mean, median, mode, geometric mean, harmonic mean, merits and demerits.

UNIT 3:

Measures of dispersion – significance, calculation of range, inter quartile range, quartile deviation, mean deviation and standard deviation, difference between mean deviation and standard deviation, Lorenz Curve.

UNIT 4:

Diagrammatic and graphic presentation – significance, difference between diagrams and graphs, limitations of diagrams and graphs. General rules for construction of diagrams. Types – One dimensional, two dimensional, Pictograms, Cartograms. Techniques of constructing graphs, Histogram, frequency polygon, smooth frequency curve and ogives.

UNIT 5:

Vital Statistics – Definition, Uses, methods of obtaining vital statistics, measurement of fertility, reproduction rate, mortality, infant mortality, Neo natal mortality rate, maternal mortality rate and natural increase.

TEXT BOOKS:

1. Dr. S.P.Gupta, Statistical methods, Sultan Chand & Sons, New Delhi, edn. 2004.

REFERENCE:

1. B.M.Aggarwal; Business mathematics and statistics fundamentals, Sultan Chand & Sons, New Delhi, edn. 2003
2. D.N.Elhance, Veena Elhance, B.M.Aggarwal, Fundamentals of statistics; Kitab Mahal, Allahabad, edn.2000
3. S.C.Gupta, V.K.Kapoor, Fundamentals of applied statistics, Sultan Chand & Sons, New Delhi, edn. 2000
4. R.S.N.Pillai, Bagavathi, Statistics theory and practice, S.Chand & Company Ltd, New Delhi, edn. 1984.
5. K.S.V.S. Narasimhan, S.Veeraragavan, K.S. Ramachandran, T.V. Ramana, Business mathematics and Business Statistics, K.C.S. Desikanand Co. Madras, edn.1984.