Syllabus
M.A. Sociology, Semester-II
SOC 0 923 : प्राथमिक सामाजिक सांख्यिकी
(Basic Social Statistics)

Objective

This paper is designed to familiarize the students about basic statistical concepts, quantitative techniques for description and induction of sociological data. In the first and second units, students are introduced to measures of central tendency and measures of dispersion, bivariate distribution, etc. The third unit includes measures of association, probability, standard scores, etc. In the last unit, students are exposed to various inferential methods.

INSTRUCTIONS FOR THE PAPER-SETTER AND THE CANDIDATES

(i)   The theory question paper will be of 80 marks and 20 marks will be for internal assessment. Duration of the paper will be 3 hours.

(ii) For private candidates, who have not been assessed earlier for internal assessment, the marks secured by them in theory paper will proportionately be increased to maximum marks of the paper in lieu of internal assessment.

The paper setter must put note (ii) in the question paper.

The syllabus has been divided into four units.

There shall be **9** questions in all. The first question is **compulsory** (Theory portion only) and shall be short answer type containing 10 short questions spread over the whole syllabus to be answered in about 30 to 35 words each, carrying 20 marks i.e. 2 marks each. Rest of the paper shall contain 4 units on Numerical Question only. Each unit shall have two Numerical questions and the candidates shall be given internal choice of attempting one question from each Unit - 4 in all. Each question will carry 15 marks.

Note : Use of Non-programmable Electrobic Calculators and Statistical Tables is permitted for the examination.

Unit-I

Statistics in Social Analysis - Functions of Statistics in social analysis, Limitations of Statistics. Variables-discrete and continuous, quantitative and qualitative; independent and dependent. Levels of measurement-Nominal, ordinal and interval.

Frequency distribution, grouping error, cumulative frequency distribution, Arithmetic mean, median and mode.

Unit-II

Range, semi-interquartile range, average absolute deviation, variance, standard deviation, coefficient of variation, Symmetry and Kurtosis.

Bivariate distribution-Bivariate contingency tables, rules for percentaging bivariate frequency tables.

Unit-III

Measures of Association- Lambda, Cramer's V, Spearman's rank correlation, Gamma and Pearson's product moment correlation coefficient.

Elements of probability- 'a priori' & empirical probability, properties of probability Normal probability distribution, area under the normal curve, standard scores, use of standard scores.

Unit-IV

Statistical Inference-Simple random sampling, sample and universe, statistic and parameter, sampling distribution, standard error of statistic, level of significance, critical region.

Tests of significance-Z and 't' tests for significance of mean (2 independent samples); Chi-square test of AXB continguency table.