

**DEPARTMENT OF COMMERCE
SYLLABUS FOR ADMISSION TEST TO PH.D. PROGRAMME,
SESSION, 2018-2019**

M.M.: 80

Section A: Research Aptitude / Methodology

There shall be 40 Multiple Choice Questions (MCQs) of 1 mark each on Research Aptitude / Methodology

Research: Meaning, Objectives, Characteristics, Types and Nature of Research, Literature Review; Process of Research, Research an aid to Decision Making and Research in Functional Areas. Qualities of a Competent Researcher, Criteria for the selection of a research problem, Research proposal.

Research Design, Source of Information and Collection of Data, Preparation of Schedule and questionnaire, Data Processing and univariate analysis, Sampling and Sample Design, Scaling technique.

Concept, Nature and formulation of Hypothesis. Procedure for testing the hypothesis, Null hypothesis and alternate hypothesis. Limitations and uses of testing the Hypothesis.

Correlation and Regression: Meaning and types of Correlation. Karl Pearson's Coefficient of Correlation. Simple Regression analysis.

Parametric Test: t-test, Z-test, One way ANOVA, Two way ANOVA.

Non Parametric Test: Chi square test, sign test, Run test, Spearman's Rank correlation test, Mann-Whitney U-test, Kruskal-Wallis H-test, Median test.

Research Ethics & Thesis Writing: Its characteristics benefits, considerations and format; Paper, Article, Workshop, Seminar, Conference and symposium