

B. Research Methodology (50 Marks) (For Social Science / Commerce & Management Programmes)

1.	Research and Type of Research: Social Research, Types (Historical, Descriptive and Experimental; Basic, Applied and Action Research- Longitudinal and Cross-sectional Research - Quantitative and Qualitative Research, Mixed Method), literature review, Variables – Concept, Construct, Indicators and Variables, Research Designs.	About 15 Questions
2.	Data collection for research: Data, Types of Data, Methods of Data Collection- Interview, Observation, Questionnaire, Focused Group Discussions. Telephonic Interviews, Surveys, Web based surveys, Tools of Data Collection- Unstructured, Semi-Structured, Structured Need and Importance of data, different types of data, sources of data, population, universe, Samples and sampling techniques, Hypothesis.	About 10 Questions
3.	Data interpretation: Probability - Theory, Principles of Probability Distribution, Sampling & Normal Distribution; Statistics and Data Processing - meaning and significance of statistics; Data processing, Data management, analysis and presentation- Classification and Tabulation of data, Graphic representation of data, Frequency Distribution; Basic Statistics- Measures of central tendency, Measures of dispersion. Meaning, uses, and computation of mean, median mode, range, quartile deviation, standard deviation etc. and hypothesis testing- z test, t test, F test, ANNOVA, Chi square, correlation and regression analysis	About 15 Questions
4.	Scientific Writing: Structure and Components of Scientific Reports – Types of Report – Technical Reports and Thesis, Components of Research Reports, Referencing Styles, Impact factor, h-index, i-10 index and other research related parameters. Intellectual property rights and patent, trademarks.	About 5 Questions
5.	Research Ethics: Ethics in research – Informed consent, confidentiality, Plagiarism, its types. Ethics misconducts like self-plagiarism. An understanding of the publishing ethics in social sciences.	About 5 Questions