Syllabus for Ph.D. Entrance Exam Paper –I (Research Methodology)	
UNIT-1	**Numerical Ability**
Number and Simplification, LCM and HCF Average, Quadratic Equations, Sequence and Series, Surds and Indices, Logarithms, Percentage, Profit and Loss, Simple Interest, Compound Interest, Ratio, Proportion and Variation, Partnership, Alligation, and Mixture. Time Speed and Distance, Time and Work, Permutations and Combinations, Probability, Geometry, Mensuration, Trigonometry, etc.	
UNIT-2	**Reasoning**
Series Formation, Coding-Decoding, Distance and Directions, Calendar and Clock, Ranking and Arrangement, Puzzles, etc.	
UNIT-3	**Data Interpretation and Graphical Analysis**
Mean, Median, Mode, Measures of Dispersion, Graphical Analysis: Bar Graph, Line Graph, Pie-Chart, Tabulation.	
UNIT-4	**Research Methodology**
Nature of Intellectual Property, Patent Rights, New Developments in IPR, Sampling, Research Design, Impact Factor, Reliability & Validity in Qualitative Research, Referencing styles - APA, MLA, Cambridge, Harvard,	