

**DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE**  
**Punjabi University, Patiala**

SYLABUS FOR PH.D ENTRANCE EXAMINATION (2020)

**Paper-A**

**(RESEARCH METHODOLOGY)**

1. Research: Definition, need, purpose and types.
2. Research Methodology: Variable, hypothesis, induction, deduction, objectivity, validity, reliability.
3. Research Design: Meaning, purpose, principles, components and criteria
4. Literature search: Print, non-print and electronic sources. Plagiarism and ethics of information use.
5. Research Instruments : Survey, questionnaire, interview, observation and case study
6. Scientific Method: Definition; components, steps; limitations; application in the field of Library and Information Science.
7. Historical and Comparative methods: Definition; steps; limitations; application in the field of Library and Information science.
8. Experimental and Statistical methods: Definition; steps; limitations; application in the field of Library and Information science.
9. Elementary Statistics: Mean, Median, Mode, mean deviation, standard deviation, percentage, ratio, frequency.
10. Probability and Non-probability Sampling Methods; Sample Size Determination; and Sampling and Non-sampling errors
11. Classification of Data: Types of Classification. Tabulation of Data: Rules of Tabulation and Types of Tables.
12. Diagrams and Graphs: Types Rules and techniques for construction .
13. Research ethics and Plagiarism.
14. Computerized Data Analysis: Description, analysis and interpretation. Use of SPSS.
15. Research Reporting: Structure, style, contents guidelines for research reporting.
16. Style manuals (CAPA, MLA, Chicago) including e-citation.
17. Methods of research evaluation.

**Paper-B**

**(SUBJECT SPECIFIC)**

Use and User Studies, Information Seeking Behavior in Context of Library and Information Centers.

1. Knowledge Organization including Classification and Cataloging
2. Concept Classification, Indexing, and Vocabulary Control
3. Knowledge Management, Change Management, Innovation Management, Access Management
4. Collection Development and Management
5. Personal and Professional Competencies
6. Community Information Centers : Resources and Services
7. Information Literacy Rubrics and Standards.
8. Online Searching, Search Strategies
9. Web Based Resources and Services
10. Institutional/ Knowledge/Subject Repositories
11. Digital, Virtual and Hybrid Libraries
12. LIS Education, Research and Training
13. E Resources including Open Access Resources
14. Information Life Cycle
15. Library and Information Services for Special Categories of Users including Persons with Disabilities
16. Preservation and Conservation including digital Preservation.