

**SYLLABUS FOR PRE-REGISTRATION QUALIFYING ENTRANCE  
EXAMINATION FOR Ph. D. PROGRAMME **LIBRARY AND INFORMATION  
SCIENCE****

**Unit I:** Information, Information Science, Information Society, Information as a Resource / Commodity, Information Transfer Cycle, Role of Information, Communication, Intellectual Property Rights, Library and Information Policy at the National Level. Laws of Library Science, Library Resource Sharing and Networking, Library Movement, Library Legislation in India, Library Extension Services, Library and Information Science Education in India, Library and Information Profession, Library Association in India and International.

**Unit II:** Sources of Information, Reference Sources, Reference and Information Services, Referral Services, Bibliographic Service, Indexing and Abstracting Services, CAS, SDI, Digest Service, Trend Report, Online Services, Translation Services, Reprographic Services. National and International Information Systems, NISSAT, NASSDOC, INSDOC, DESIDOC, INIS, AGRIS, MEDLARS, INSPEC. Networks, ERNET, NICNET, DELNET, JANET, BLAISE, OCLC, INFLIBNET,

**Unit III:** Organization of Knowledge / Information, Modes of Formation of Subjects, Library Classification, Library Cataloguing, Library Cataloguing Codes, Bibliographic Records, Intellectual Standards, Indexing, Vocabulary Control, Databases, Knowledge Management. Management, Planning, Organization Structure, Decision Making, System Study, Collection Development, Human Resource Management, Delegation of Authority, Financial Management, Resource Generation, Types of Budgeting, PERT, CPM, Library Building and Equipments, Performance Evaluation of Libraries/Information Centers and Services, Marketing Information Product and Services, Total Quality Management (TQM).

**Unit IV:** Information Technology, Components of Information Technology, Impact of IT on Society, Computer Hardware, Computer Software, Storage Devices, Telecommunications, Transmission Medias, Switching Systems, Bandwidth, Multiplexing, Modulation, Protocols, Wireless Communications, Fax, Email, Tele conferencing / video conferencing, Bulletin Board Service, Teletex, Videotex, Voice Mail, Networking (Concept) Networking Topologies, Network Types (LAN, MAN, WAN), Hypertext, Hypermedia, Multimedia, Integrated Service Digital Network (ISDN), Open Systems Interconnections (OSI). Library Automation, Areas of Library Automation, Planning Library Automation, Hardware and Software Selection for Automation, OPAC, Internet, Components of Internet, Internet Services (Browsing, Web Browsers, Search Engines, Meta Data Digital Object Identifier (DOI)

**Unit V:** Types of Research (Basic, Applied, Interdisciplinary), Research Design, Scientific Method, Hypothesis, Data Collection, Sampling, Methods of Research (Historical, Descriptive, Case Study, Survey, Comparative and Experimental), Statistical Methods, Data Analysis, Report Writing, Research Methods in Library and Information Science and Services, Bibliometrics, Scientometrics, Webometrics and Altmetrics. Types of Libraries, Digital Libraries (Concept), Virtual Libraries (Concept), Types of Users, User Studies, User Education, Role of UGC in the Growth and Development of libraries and information centers in institutes of Higher Education in India, Raja Rammohun Roy Library Foundation (RRRLF).