

Integral University
Ph.D. Entrance Test Syllabus

Library and Information Science

- I.** Information, Information Science, Information Society
Information as a Resource / Commodity
Information Transfer Cycle-Generation, Collection, Storage and Dissemination Role of information in Planning, Management, Socio-economic Development, Technology Transfer
Communication Channels, barriers
Intellectual Property Rights-Concepts, Copyright, Censorship-Print and Non-print Media
Library and Information Policy at the national Level

- II.** Laws of Library Science
Library Resources Sharing and Networking
Library Movement and Library Legislation in India
Library Extension Services
Library and Information Science Education in India
Library and Information Science Profession
Library Associations in India, UK and USA-ILA, IASLIC, IATLIS, SIS, LA, ASLIB, SLA and ALA
Library Associations organizations at International level-FID, IFLA and UNESCO

- III.** Sources of Information-Primary, Secondary and Tertiary-Documentary and Non-documentary
Reference Sources-Encyclopaedias, Dictionaries, Geographical Sources, Biographical Sources, Year-Books / Almanacs Directories, and Handbooks, Statistical (salient features and evaluation)
Bibliographical Source-Bibliographies, Union Catalogues, Indexing and Abstracting Journals (salient features and evaluation)
E-documents E-books, E-Journals
Database-Bibliographic Numeric and Full text-Evaluation

- IV.** Reference and Information Services, Referral Service
Bibliographic Service, Indexing and Abstracting Service, CAS SDI, Digest Service, Trend Report
Online Services
Translation Services
Reprographic Services

- V.** Organization of knowledge / information
Modes of formation of subject
Library Classification-Canons and Principles
Library Classification Schemes-DDC, UDC and CC
Library Cataloguing-Canons and Principles
Library Cataloguing Codes-CCC and AACR-II
Bibliographic Records-International Standards-ISBDs, MARC and CCF
Indexing-Pre-coordinate, Post-coordinate
Vocabulary Control-Thesaurus, Lists of Subject Heading
Database-Search Strategies, Boolean Operators
Knowledge Management
- VI.** Management-Principles, Functions, Schools of Thought
Planning, Organization Structure
Decision Making
System Study-Analysis, Evaluation and Design
Collection Development-Books, Serials, Non-book Materials-Selection, Acquisition, Maintenance: ISBN, ISSN, Cataloguing-in-Publication (CIP)
Human Resources Management-Manpower Planning, Job analysis job description, Selection, Recruitment Motivation Training and Development, Staff Manual, Leadership and Performance Evaluation
Delegation of authority
Library Buildings and Equipments
Performance Evaluation of Library/Information Centers and Services
Marketing Information product and service
Total Quality Management (TQM)
- VII.** Information Technology-Components: Impact of IT on Society
Computers-Hardware, Software Storage Devices, Input /Output Devices
Telecommunication-Transmission media, switching systems, Bandwidth, Multiplexing, Modulation, Protocols Wireless Communication
Fax, E-Mail Tele-conferencing/Video-conferencing, Bulletin Board Service, Teletext, Videotex, Voice Mail
Networking-Concepts, Topologies, Types-LAN, MAN and Wan
Hypertext Hypermedia, Multimedia, Multimedia
Integrated Services Digital Network (ISDN), Open Systems Interconnection (OSI)
- VIII.** Library Automation-Areas of automation, Planning Hardware and Software Selection, OPAC
Networks-ERNET, NICNET, DELNET, JANET, BLAISE, OCLC, INFLIBNET
INTERNET-Components, Services, Browsing-Web Browsers, Search Engines Meta-Data, Digital Object Identifier (DOI)
National and International Information System-NISSAT, NASSDOC, INSDOC, DESIDOC, INIS, AGRIS, MEDLARS, INSPEC

- IX.** Types of Research-Basic, Applied, Interdisciplinary
Research Design
Scientific Method, Hypotheses, 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
- X.** Types of Libraries-National, Public Academic and Special Objectives, Structures and Function
Digital Libraries-Concepts
Virtual Libraries-Concepts
Types of users, Users Studies, User education
Role of UGC in the growth and development of libraries and information centers in institutions of higher education in India
Role of Raja Rammohan Roy Library Foundation (RRLF)