



Vishwakarma University, Pune
Department of Library Science
Ph.D. Entrance Examination
Syllabus for Ph.D. Entrance test (Paper II)

Total marks: 50

Unit – I Library Science

- LIS Education in India, LIS Profession, Library Movement - Library legislation in India, Laws of Library Science, Library and Information Science in India, Library and Information Profession, Information Literacy
- Types of libraries – Academic, National, Public, And Special objectives structure and functions,
- Types of users, user studies user education
- Library Cataloguing (Canons and Principles, library cataloguing codes – CCC and AACR-II) and Classification - (Canons and principles, library classification schemes – CC, UDC and DDC)
- Library Cataloguing –Bibliographic Records (International Standards – ISBDs, MARC, and CCF), Indexing (Pre-coordinate, Post-coordinate), Vocabulary control (Thesaurus, list of subject headings), Databases (search strategies, Boolean operators).
- Library Services - Reference and Information services, Referral Services, Bibliographic Service, Indexing and Abstracting Service, CAS, SDI, Digest Service , Translation Services, Trend Report, Online Services, Reprographic Services, Library extension Services
- Source of Information – Primary, Secondary, Tertiary – Documentary and non-documentary,
- Reference Sources – Encyclopedias, Dictionaries, Geographical Sources, Bibliographical Sources, Year-books/ Almanacs, Directories and Handbooks, Statistical (salient features and evaluation), E-documents – e-books, e-journals, Databases – bibliographic, numeric and full text – evaluation
- 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, Current trends in Information Storage & Retrieval

- Library Associations Organizations in India and at International Level - ILA, IASLIC, IATLIS, SIS, LA, ASLIB, SLA, ALA, FID, IFLA, and UNESCO
- Role of UGC in the growth of development of libraries and information centers in institutions of higher education in India

Unit – II Information Communication Technology (ICT)

- Information Technology – Components, Impact of IT on Library Science, Current trends in IT
- Computers – Hardware, Software, Storage Devices – Input / Output Devices
- Telecommunication – Transmission media, Switching systems, Bandwidth, Multiplexing, Modulation, Protocols, Wireless Communication, Fax, E-mail, Teleconferencing / Video-conferencing, Bulletin Board Service, Teletext, Videotex, Voice mail
- Networking – concepts, Network Topologies, Types – LAN, MAN, WAN
- Hypertext, Hypermedia, Multimedia
- Integrated Services Digital Network (ISDN), Open Systems Interconnection (OSI)

Unit – III Library Automation

- Library Automation – Areas of automation, planning, hardware and software selection, OPAC,
- Digital Library, Virtual Library, Electronic Documents,
- INTERNET Components, Services, Browsing-Web Browsers, Search Engines Meta-Data, Digital Object Identifier (DOI)
- Institutional Repository(IR), Open Source Software(OSS), Web 2.0
- Library Resource Sharing and Networking
- Networks – ERNET, NICNET, DELNET, JANET, BLAISE, OCLC, INFLIBNET
- National and International Information Systems – NISSAT, NASSDOC, INSDOC, DESIDOC, INIS, AGRIS, MEDLARS, INSPEC

Unit – IV Library Management

- Management – Principles, Functions, Planning, Organization Structure, Decision making System Study – Analysis, Evaluation and Design
- Human Resource Management – manpower planning, job analysis, job description, selection, recruitment, motivation training and development, staff manual, leadership and performance evaluation, delegation of authority
- Financial management-Resource Generation, types of budgeting, Cost-Benefit analysis
- PERT, CPM
- Performance Evaluation of Libraries/Information Centres and Services
- Marketing of Information product and services
- Library Structure and Total Quality Management (TQM)
- Knowledge management

- New Techniques in Library Management
- Library buildings and equipments
- Collection Development – Books, Serials, Non-book materials selection, Acquisition, maintenance, ISBN, ISSN, cataloguing in publication (CIP)

Unit – V Research

- Research – Research Types - 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