



APS UNIVERSITY, REWA
Ph.D. Entrance Examination In
Library and Information Science
2022
(Part A)
Research Methodology

- Concept and process of research
- Types of research – fundamental and applied including interdisciplinary and multidisciplinary approach
- Identification and formulation of problem
- Literature search- print, non-print and electronic
- Web search using search engines
- Advanced searching techniques
- Database search- Emerald, JSTOR, DOAJ, J-Gate, Science Direct etc
- Hypothesis: nominal and operational definition
- Designing research proposal
- Historical method, Descriptive method
- Survey method and case study method
- Questionnaire, Schedule, Interview, Observation
- Sampling techniques
- Descriptive statistics – measure of central tendency: mean, mode and median
- Tabulation and generalization
- Measure of dispersion, variance and covariance, standard deviation
- Graphical presentation of data- bar chart, pie chart
- Z-T test, correlation, Regression, Chi Square test

- Spread sheet tools: Formulas, functions, charts, graphs and other features
- Use of SPSS for research analysis
- Structure, style and contents
- Introduction to presentation tools: Creating, Customizing and Screening
- Structure and components of research report
- Pre-writing considerations
- Types of report and steps in report writing
- Standards for bibliography and references
- Copyright infringement and plagiarism
- Evaluation of Research Report
- Style manuals – Chicago, MLA, APA
- e-citation
- Citation tools for research: SCOPUS, Web of Science etc.
- Institutional Repositories: concept, types with examples
- ICT application in research: Video conferencing, online discussions, online questionnaires etc.

Spring

APS UNIVERSITY, REWA
Ph.D. Entrance Examination In
Library and Information Science

2022

(Part B)

Unit-I

Information, information science, Information Society, 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-Concept, Copyright, Censorship-Print and non-Print media, Library and information Policy at the national level.

Unit-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. Types of Libraries national, Public, Academies, and Special Objective structure Functions. Users Studies, User's education Role of UGC in the growth and development of Libraries and information centres in institutions of higher education in India, Role of raja Ram Mohan Ray Library Foundation (RRLF). Library and information profession, Library Association in India, UK And USA, ILA, IASLIC, IATLI, SM, SISM, LAM, ASLIB SLA and ALA, Library association organization at international level-FID, IFLA and UNESCO.

Unit-III

Source of information-Primary, secondary and tertiary-Documentary and non-documentary. References Sources: Encyclopaedias, Dictionaries, Geographical Sources, Biographical, Sources, Year Book/ Almanacs, Directories, and Hand books, Statistical (salient features and evaluation), Bibliographical Sources-bibliographies, Union, Catalogue, indexing and Abstracting, Journal (salient

SP Singh

features and evaluation), E-Documents. E-Books E-Journals. Database: Bibliography, Numeric and full text, evaluation.

Unit-IV

Reference and information services, referral services, Bibliography services, indexing and Abstracting services, CAS, SDI, Digital service, trend report, Online Services, Translation Services, reprographic Services.

Unit-V

Organization of knowledge/information, modes of information of subjects, Library classification: Canons and Principles, Library classification Schemes: DDC, UDC, and CC. Library Cataloguing- Canons and Principles, Library cataloguing codes: CCC and AACR-2R. Bibliography records. International Standards: ISBDS, MARC and CCF, indexing-Pre-Coordinate, Post-Coordinate, Vocabulary control: Thesaurus, lists of Subjects Headings, Database-Search Strategies, Boolean Operators, Knowledge Management.

Unit-VI

Management-Principles, Functional, School of Thought, Planning, Organisational Structure, Decision-making, System study: Analysis, evaluation and design, Collection Development-Books Serials, non-book, Material Selection, Acquisition Maintenance, ISBAN, 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, Financial Management-resources generation, types of Budgeting, Cost and Cost-Benefit analysis. PERT, CPM. Library Buildings and equipment. Performance evaluation of libraries. Information centres and services, marketing information product and services. Total quality management (TQM). Performance Evaluation and Measurement. Evaluation of Library Services & Products. SWOT Analysis. Re-Engineering of Library Services. Out Sourcing.

SP Singh

Six Sigma. Brain Storming. Mind Mapping & Other Recent Techniques. Techniques & Methods. Role of Library Associations. Impact of Management Consultancy on Librarianship

Unit-VII

Digital Libraries: Definition, Objectives, Characteristics and Development- Digitalization Process. Digital Library Packages: GSDL, DSpace, Green Stone, E-print, etc. Collections: E-Books, E-Journals, E- Theses-E-Newspapers, E-Magazines, E- Dictionaries, Databases: CD & Online etc. Online Bookshops, Digital Preservation, Issues and Solutions. Web Browsers: Definition, Features- Internet Explorer, Mozilla Firefox, Google Chrome. Search Engines: Definition, Features-Google. Search Techniques and Information Retrieval. Search Strategies: Boolean Operations, Proximity Search, Heuristic Search, Navigational Search, etc. Internet Searching and Meta Data Search Engines & Data Mining, Data Harvesting and Semantic Web Knowledge Management Retrieval. Planning of Digitization, Content creation for DL, Intellectual Property Right Issue (IPR), Digital Collection (e-books, e-journals). E-Shodh Sindhu, Portal and Gateways.

Unit-VIII

Emerging Technologies in LIS: Emerging Technologies in Libraries RSS Feeds Technology. Libraries Library Security Technology: RFID, Barcode, Smart Card and CCTV, etc. Functional Requirements for Bibliographic Records (FRBR). Digital Content Management System. Federated Search and Multimedia. Databases Search Protocols: Z39.50 Standard for Retrieval and OAI-PMH Artificial Intelligence and Libraries Expert. Systems in Libraries. Electronic Resources. Sound Recordings, Motion Pictures, Video Recordings, Computer Files, Video Conferencing and Audio Conferencing. Library Automation, Areas of Library Automation, Planning Library Automation, Hardware and Software Selection for Automation. Resource discovery tools/services.

SP Singh