

The Maharaja Sayajirao University of Baroda, Vadodara  
**Ph. D Entrance Test (PET Examination)**

**SYLLABUS**

Note : Paper – II will cover 50 compulsory Multiple Choice Questions (MCQ) of 1 mark each covering Entire Syllabus including all electives.

**Subject: Library And Information Sciences**

**PET Examination Code: 6**

---

**PAPER-II**

**Unit—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—Concept, Copyright, Censorship—Print and Non-print Media  
Library and Information Policy at the National Level

**Unit—II**

Laws of Library Science  
Library Resource Sharing and Networking  
Library Movement and Library Legislation in India  
Library Extension Services  
Library and Information Science Education in India  
Library and Information Profession

Library Associations in India, UK and USA—ILA, IASLIC, IATLIS, SIS, LA, ASLIB, SLA and ALA

Library Associations Organisations at International level—FID, IFLA and UNESCO

### **Unit—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 Sources—Bibliographies, Union Catalogues, Indexing and Abstracting Journals (salient features and evaluation)

E-documents, E-books, E-Journals

Databases—Bibliographic, Numeric and Full text—Evaluation

### **Unit—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

### **Unit—V**

Organisation of knowledge/information

Modes of formation 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-II

Bibliographic Records—International standards—ISBDs, MARC and CCF

Indexing—Pre-coordinate, Post-coordinate

Vocabulary Control—Thesaurus, Lists of Subject Headings

Databases—Search Strategies, Boolean Operators

Knowledge Management

## **Unit—VI**

Management—Principles, Functions, Schools of Thought

Planning, Organisation 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

Financial Management—Resource Generation, Types of Budgeting, Cost and Cost-Benefit analysis

PERT, CPM

Library Buildings and Equipments

Performance Evaluation of Libraries/Information Centres and Services

Marketing Information product and services

Total Quality Management (TQM)

## **Unit—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

Integrated Services Digital Network (ISDN), Open Systems Interconnection (OSI)

## **Unit—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 Systems—NISSAT, NASSDOC, INSDOC, DESIDOC, INIS, AGRIS, MEDLARS, INSPEC

## **Unit—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

## **Unit—X**

Types of Libraries—National, Public, Academic and Special Objectives, Structure and Functions

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 centres in institutions of higher education in India

Role of Raja Rammohan Roy Library Foundation (RRLF)