

**SWAMI RAMAND TEERTH MARATHWADA
UNIVERSITY, NANDED.
SYLLABUS FOR PET (Ph.D. Entrance Test)
SYLLABUS
SUBJECT – LIBRARY & INFORMATION SCIENCE**

PET Syllabus for Library Science

(Section- A) will be common for all subjects

(Section -B) will be based upon the following topics:

Information, Information science, Information Communication & Transfer Cycle
Communication – channels, barriers.

Laws of Library Science, Library movement, Library Science education, Library profession and
Library legislation.

Reference sources and services

Library classification schemes

Library cataloguing

Library management – Principles, Functions, School of thought, Collection development, Human
resource management, Financial management, Library Annual report, Library budget and furniture

Total quality management (TQM)

Unit I :

Research in Library Science

Types of Research - Basic, Applied, Interdisciplinary

Research Design

Scientific Method, Hypotheses, Tools of Data Collection, Sampling,

Methods of Research- Historical, Descriptive, Case Study, Survey,

Comparative, Experimental, Scientific,

Statistical Methods, Data Analysis

Report Writing , Bibliometrics , Scientometrics.

Unit II :

Types and Presentation Techniques in research

Research Ethics

Use and user study

Content analysis, Citation Analysis

Field study

Future Research; Delphi Techniques

Style manuals (Chicago, APA, MLA)

Citation styles: Footnotes, references

Evaluation of research

Current trends in LIS research.

Unit III :

Application of Information Technology to libraries
Impact of IT on Library
Library Networking & Networks,
Network Topologies
Hypertext, Hypermedia, Multimedia
Integrated services, Digital Network (ISDN), Open Systems
Interconnection (OSI)
Digital Library
Virtual Library
Electronic Documents
Library Automation
INTERNET Components, Services, Browsing-Web Browsers,
Search Engines, Meta-data,
Digital Object Identifier (DOI)
Institutional Repository, Open Source Software, Web 2.0
Current trends in IT
Multilingual library software's.

Unit IV :

Types of Libraries and Research
Characteristics, functions, services and organization & Management of
School, College, University, Public, Special libraries with special
reference to Indian situations

Unit V :

Networks and Security measures
Network components: UTP, Optical Fibers, Ethernet, Network Interface
Card, Hub,
Router, Modems and requirement of Wi-Fi
Planning of computer networks in Library and Information Centers
Network security measures.
Internet Security