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   Research Aptitude (MCQ)   **40 marks**
Section B   Library Science (MCQ)   **30 marks**
Section C   Library Science (Descriptive) **30 marks**
(Section C Paper-I will consist of five questions out of which **any two** are to be answered)

(Section- A) will be common for all subjects
There will be forty multiple choice questions for forty marks

(Section -B) will be based upon the following topics:
There will be thirty multiple choice questions for thirty marks

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)

(Section C) will be based upon the following topics:

There will be five questions based on the following areas each. The candidates are supposed to answer any two questions out of five. Each question carries 15 marks and the word limit for the answer is 300-500 words.

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