

**DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE
MAHARSHI DAYANAND UNIVERSITY, RO HTAK**

Scheme of Examination of Ph.D (Course Work) Examination

Paper No	Nomenclature	Max Marks	Internal assessment	Theory	Time
LIS-CW-I	Research Methodology	100	20	80	3 Hrs
LIS-CW-II	Computer Applications in Library and Information Science	100	20	80	3 Hrs
LIS-CW-III	Emerging Trends in Library and Information Science	100	20	80	3 Hrs

- Following criteria will be followed for the award of internal assessment:-
 - a) Attendance : 5 Marks
 - Less than 65% : 0 Marks
 - 65-70% : 2 marks
 - 71-75% : 3 Marks
 - 76-80% : 4 Marks
 - Above 80% : 5 Marks
 - b) Assignment : 5 Marks
 - c) One Written Test : 10 marks

LIS-CW-I: RESEARCH METHODOLOGY

Maximum marks: 80

Time: 3Hrs.

Instructions: There are 9 questions in total. Question 1 is compulsory and covers the entire syllabus in the form of eight short answer type questions. Questions 2 to 9 include two questions from each unit and the candidates are required to attempt one question from each unit. Total five questions have to be attempted. All questions carry equal marks.

Unit 1: Research

- Research: Meaning, Definition, Importance, Characteristics
- Types of Research: Pure, Applied and Action Research
- Research Ethics
- Literature search – Print, Non-print and Electronic sources

Unit 2: Research Design

- Research Design: Concept, Need and Purpose
- Types of Research Design
- Hypothesis formulation

Unit 3: Research Methods, Tools and Techniques

- Research Methods: Scientific, Historical, Case Study, Survey, Experimental
- Research Tools: Questionnaire, Interview, Schedule, Observation
- Sampling Techniques

Unit 4: Statistical Techniques

- Measures of Central Tendency: Mean, Median, Mode
- Measures of Dispersion, Variance and Covariance
- Standard Deviation
- Presentation of Data: Tabular, Graphic, Bar Diagram, Pie Chart, etc.
- Data Analysis: Use of SPSS

Suggested Reading:

1. Busha, C.H and Harter, S.P. *Research methods in librarianship: Techniques and interpretation*. New York: Academic Press, 1980.

2. Goode, W.J. and Hatt, P.K. *Methods in social science research*. New Delhi: McGraw Hill, 1986.
3. Krishan Kumar. *Research methods in library and information science*. New Delhi: Vikas Publishing House, 1992.
4. Kumar, P. S. G. *Research methods and statistical techniques*. Delhi; B. R. Publishing Corpn., 2004.
5. Leddy, Paul D. *Practical research: Planning design*. London, Clive Bingley. 1980.
6. Rao, I. K. Ravichandra. *Quantitative methods in library and information science*. New Delhi: Wiley Eastern, 1983.
7. Slater, Margaret, ed. *Research methods in library and information studies*. London: Library Association, 1990.
8. Stevens, R.E. Ed. *Research methods in librarianship*. London, Clive Bingley, 1971.

LIS-CW-II: COMPUTER APPLICATIONS IN LIBRARY AND INFORMATION SCIENCE

Maximum marks: 80
Time: 3Hrs.

Instructions: There are 9 questions in total. Question 1 is compulsory and covers the entire syllabus in the form of eight short answer type questions. Questions 2 to 9 include two questions from each unit and the candidates are required to attempt one question from each unit. Total five questions have to be attempted. All questions carry equal marks.

Unit 1: Library Automation

- Library Automation: Definition, Need and Purpose
- Planning and Implementation of Library Automation
- Automation of Library Housekeeping Operations
- Library Application Software Packages: SOUL, LIBSYS, WINISIS

Unit 2: Communication Technology

- Communication Technologies: Media and Mode
- Network Types: LAN, MAN, WAN
- Network Topologies
- Components of LAN: Servers, PCs etc., Network Interface Card, Hubs, Routers, Modems, UPSs

Unit 3: Library Networks and Consortia

- Library Networks in India- DELNET, INFLIBNET
- Library Networks at International Level: OCLC, JANET, RLIN
- Library Consortia in India: UGC-INFONET, INDEST

Unit 4: Internet

- Internet Services
- Internet Protocols: FTP, HTTP
- Standards: OSI Reference Model
- Web Tools: Web browsers (Netscape, Internet Explorer, etc.), Search Engines (Google, Yahoo), E-mail
- Internet Security

Suggested Reading:

1. Bala, Krishnan Shyama and Paliwal, P. K., ed. *Networking and the future of libraries*. New Delhi: Anmol Publishing, 2001.
2. Basandra, Suresh K. *Computer today*. New Delhi: Galgotia Publication Pvt. Ltd., 1998.
3. Bradley, P. *World Wide Web: How to design and construct web pages*. 2nd Ed. London: ASLIB, 2000.
4. Forouzan, B. A., Coombs, Catherine and Fegan, S. C. *Data communication and networking*. 2nd ed. New Delhi: Tata McGraw-Hill, 2000.
5. Jeanne, F. M. *A librarian's guide to the Internet: A guide to searching and evaluating information*. Oxford: Chandos publishing, 2006.
6. Tedd, Lucy, A. *An Introduction to computer based library system*. 3rd ed. Chichester: Wiley, 2005.
7. Rowley, J. *The electronic library*. 4th ed. London: LA, 1998.
8. Stallings, William. *Data and computer communications*. 6th ed. New Delhi: Pearson Education Asia, 2001.
9. Yadav, D. S. *Foundations of information technology*. New Delhi: New Age International (P) Ltd, Publishers, 2006.
10. Zorkoczy, Peter. *Information Technology: An introduction*. London: Otiman, 2005.

LIS-CW-III: EMERGING TRENDS IN LIBRARY AND INFORMATION SCIENCE

Maximum marks : 80

Time : 3Hrs.

Instructions: There are 9 questions in total. Question 1 is compulsory and covers the entire syllabus in the form of eight short answer type questions. Questions 2 to 9 include two questions from each unit and the candidates are required to attempt one question from each unit. Total five questions have to be attempted. All questions carry equal marks.

Unit 1: Digital Libraries and Institutional Repositories

- Digital Library- Genesis, Definition, Objectives and Scope
- Digitization process: Input Capture Devices
- Digital Library Software: Greenstone and Dspace
- Metadata: Types, Dublin Core
- Institutional Repositories: Concept, Need

Unit 2: Information Society

- Information Society- Genesis, Characteristics and Implications
- Changing Role of Library and Information Centres in Society
- Information Industry: Generators, Providers and Intermediaries

Unit 3: Electronic Resources

- Electronic Resources- Concept, Features, Characteristics
- Types of Electronic Resources
- Collection Development of Electronic Resources
- Access Channels for Electronic Resources

Unit 4: Information Services and Information Literacy

- Information services: Concept, Definition, Need
- Alerting services: Computerized CAS and SDI
- Information Literacy: Concept, Definition, Need
- ACRL Standards for Information Literacy
- Information Literacy Models

Suggested Reading:

1. Eisenberg, Michael. *Information literacy: Essential skills for the information age*. 2nd ed. Westport Publ.: Libraries Unlimited, 2005.
2. Jaswal, D.S. *Recent trends in library and information science*. Chandigarh: Arun Publishing House, 2008.
3. Rydberg-Cox, Jefery A.. *Digital libraries and the challenges of digital humanities*. Oxford: Chandos Publishing, 2006.
4. Katz, Linda S. *Collection development policies: New dimension for changing collections*. London: Roulledge, 2003.
5. Lal, C, ed. *Information literacy in the digital age*. New Delhi: Ess Ess Publications, 2008.
6. Lancaster. F.W. *Electronic publishing and their implications for libraries and beyond*. London: Clive Bingley, 1990.
7. Martin, William J. *The information society*. London: Aslib, 1988.
8. Prasher, R.G. *Information and it communication*. New Delhi: Medallion Press, 1991.
9. Richard Jones. *The institutional repository*. Oxford: Chandos publishing, 2006.
10. Ramaiah, L.S, Reddy, Sankara and Hemant Kumar. *E-libraries: Problems and perspectives*. New Delhi: Allied Publishers, 2007.