QuickNotes

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UGC NET Paper 2

Library and Information Science (059)
Complete revision notes — all 10 units

10 units | Tables & formulas | Key revision points

01 Foundations of Library Science
02 Information Sources
03 Library Services and Users
04 Knowledge Organisation: Classification and Cataloguing
05 Library Management
06 ICT and Library Automation
07 Information Retrieval
08 Research Methods and Bibliometrics
09 Types of Libraries
10 Digital Libraries and Networks

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How to use these notes

- Read one unit at a time, then test yourself with its key revision points.
- Make your own short notes on topics you find difficult.
- Units follow the main areas of the official syllabus — the exact unit list can change between sessions.
- Always check the latest syllabus and notices on the official UGC NET portal: **ugcnet.nta.ac.in**.

UNIT 01

Foundations of Library Science

Data, information and knowledge; Ranganathan's laws; library legislation and associations.

- Data → information → knowledge → wisdom (DIKW).
- **S. R. Ranganathan's Five Laws of Library Science** (1931): books are for use; every reader his/her book; every book its reader; save the time of the reader; the library is a growing organism.
- Ranganathan is regarded as the father of library science in India; National Librarians' Day is 12 August, his birthday.
- First public library act in India: Madras Public Libraries Act, 1948.

Body	Note
IFLA (1927)	International Federation of Library Associations
ALA (1876)	American Library Association
ILA (1933)	Indian Library Association
RRRLF (1972)	Raja Rammohun Roy Library Foundation

★ Key revision points

- Five Laws: 1931.
- National Librarians' Day: 12 August.
- First Indian library act: Madras, 1948.
- Library is a growing organism = 5th law.

UNIT 02

Information Sources

Primary, secondary and tertiary sources and reference books.

Type	Examples
Primary	Journals, patents, theses, conference papers
Secondary	Indexes, abstracts, reviews, encyclopaedias, textbooks
Tertiary	Bibliographies of bibliographies, directories, guides to literature

Reference sources: dictionaries, encyclopaedias, yearbooks, directories, biographical sources, gazetteers, atlases.

★ Key revision points

- Theses and patents are primary sources.
- Indexing and abstracting services are secondary.
- Guides to literature are tertiary.
- Encyclopaedias are secondary sources.

UNIT 03

Library Services and Users

Reference service, information services, user studies and information literacy.

- Reference service — ready reference and long-range; the reference interview.
- **CAS** (Current Awareness Service) and **SDI** (Selective Dissemination of Information — H. P. Luhn).
- User studies; information-seeking behaviour (Wilson, Ellis, Kuhlthau).
- Information literacy — ACRL framework.

★ Key revision points

- SDI = H. P. Luhn.
- CAS keeps users current with new information.
- Information search process = Kuhlthau.
- Reference interview clarifies user needs.

UNIT 04

Knowledge Organisation: Classification and Cataloguing

Classification schemes, cataloguing codes, metadata and subject headings.

Scheme / code	Note
DDC	Melvil Dewey, 1876 — decimal classification
UDC	Otlet and La Fontaine — Universal Decimal Classification
Colon Classification (CC)	Ranganathan, 1933 — faceted; PMEST
LCC	Library of Congress Classification
AACR2 → RDA	Cataloguing codes; RDA based on FRBR
MARC 21	Machine-readable cataloguing format
Dublin Core	15 metadata elements
LCSH, Sears	Subject headings lists

★ Key revision points

- DDC = Dewey, 1876.
- Colon Classification = Ranganathan; PMEST.
- Dublin Core has 15 elements.
- RDA replaced AACR2.

UNIT 05

Library Management

Management principles, collection development, finance and human resources in libraries.

- POSDCORB (Gulick); TQM; SWOT.
- Collection development: selection, acquisition, weeding; book selection principles — Drury, McColvin.
- Budgeting: line-item, programme, zero-based budgeting.
- Library standards and performance measurement.

★ Key revision points

- Weeding removes outdated materials.
- Zero-based budgeting justifies every item afresh.
- POSDCORB = Gulick.
- Collection development includes selection and acquisition.

UNIT 06

ICT and Library Automation

Library automation software, digital repositories and standards.

Software / standard	Use
Koha	Open-source integrated library system
SOUL	INFLIBNET's library automation software
DSpace, EPrints	Institutional repositories
Greenstone	Digital library software
Z39.50	Protocol for searching remote catalogues
OAI-PMH	Metadata harvesting
RFID	Self-checkout, security

★ Key revision points

- Koha is open source.
- SOUL = INFLIBNET.
- Z39.50 = catalogue search protocol.
- OAI-PMH harvests metadata.

UNIT 07

Information Retrieval

Retrieval models, Boolean search, indexing and evaluation measures.

- Boolean operators: AND (narrows), OR (broadens), NOT (excludes).
- Models: Boolean, vector space, probabilistic.
- **Precision** = relevant retrieved ÷ total retrieved; **recall** = relevant retrieved ÷ total relevant.
- Indexing: PRECIS (Austin), POPSI (Bhattacharyya), chain indexing (Ranganathan), KWIC (Luhn).

★ Key revision points

- AND narrows; OR broadens.
- Precision vs recall trade-off.
- Chain indexing = Ranganathan.
- KWIC = Luhn.

UNIT 08

Research Methods and Bibliometrics

Research methods in LIS and the laws of bibliometrics.

Law	Deals with
Bradford's law	Scattering of articles across journals
Lotka's law	Author productivity (inverse square)
Zipf's law	Word frequency

Scientometrics, informetrics, webometrics; citation analysis; **h-index** (Hirsch, 2005); impact factor (Garfield).

★ **Key revision points**

- Bradford = scattering.
- Lotka = author productivity.
- Zipf = word frequency.
- h-index = Hirsch (2005).

UNIT 09

Types of Libraries

Academic, public, special and national libraries in India.

- **National Library of India**, Kolkata (originally the Imperial Library).
- **Delivery of Books and Newspapers (Public Libraries) Act, 1954** — publishers deposit copies with designated libraries.
- Academic libraries (UGC norms), public libraries (state acts), special libraries (research organisations).

★ Key revision points

- National Library: Kolkata.
- Delivery of Books Act: 1954.
- Public libraries governed by state acts.
- Special libraries serve specific organisations.

UNIT 10

Digital Libraries and Networks

Digital libraries, consortia and library networks in India.

Network / consortium	Note
INFLIBNET (1991)	Gandhinagar; UGC inter-university centre
e-ShodhSindhu	Consortium for e-resources in higher education
DELNET	Developing Library Network, Delhi
NDLI	National Digital Library of India, IIT Kharagpur
Shodhganga	Repository of Indian theses

★ Key revision points

- INFLIBNET: 1991, Gandhinagar.
- Shodhganga = theses.
- e-ShodhSindhu = e-resource consortium.
- NDLI = IIT Kharagpur.

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