

R3549

Sub. Code

932301

M.L.I.Sc. DEGREE EXAMINATION, NOVEMBER – 2025

Third Semester

Library and Information Science

RESEARCH METHODOLOGY

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions by choosing the correct option.

1. _____ data provides in-depth information relating to research problem (CO1, K2)
 - (a) Sampling data
 - (b) Primary
 - (c) Secondary
 - (d) Tertiary

2. What is the purpose of literature review? (CO1, K2)
 - (a) To increase the size of the research report
 - (b) To find out what is already researched
 - (c) To carry out citation study
 - (d) To have a long list of references

3. Null hypothesis is stated in (CO2, K3)
- (a) Question
 - (b) Positive statement
 - (c) Negative statement
 - (d) Statement
4. Identify odd thing out (CO2, K3)
- (a) Observation (b) Scaling
 - (c) Sampling (d) Interview
5. Delphi method of research is used to collect data from (CO3, K2)
- (a) Databases (b) Experts
 - (c) Libraries (d) Books and journals
6. Guide to literature is categorised in which of the following type of information source? (CO3, K2)
- (a) Patent literature
 - (b) Periodical literature
 - (c) Primary information source
 - (d) Tertiary information source

7. To test null hypothesis a researcher uses (CO4, K2)
- (a) Factorial analysis
 - (b) T-test
 - (c) ANOVA
 - (d) Standard Deviation
8. What are the core elements of a research process? (CO4, K2)
- (a) Research plan, Research data, Analysis, references
 - (b) Introduction, Literature review, Research Methodology, Results, Discussion, and Conclusion
 - (c) Executive summary, Literature review, Data gathered, Conclusion, and References
 - (d) Introduction, Data collection, Data analysis, Conclusion, and Recommendations
9. Assertion (A) : Turnitin is a digital library software
- Reason (R) : Plagiarism check is process of checking similarity (CO5, K2)
- (a) Both (A) and (B) are true
 - (b) Both (A) and (B) are false
 - (c) (A) is false (B) is true
 - (d) (A) is true (B) is false

10. One of the Following Search Engine is exclusively meant for scientific information (CO5, K2)

- (a) Google (b) YAHOO
(c) SCIRUS (d) Altavista

Part B (5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Discuss the significance of literature reviews in research. (CO1, K2)

Or

(b) What is a research problem? List the sources of the research problem. (CO1, K2)

12. (a) In the research process, what is the role of a research proposal. (CO2, K3)

Or

(b) Describe snowball sampling in detail. (CO2, K3)

13. (a) Differentiate between primary and secondary sources of data with an example. (CO3, K2)

Or

(b) What is a Likert scale, and how is it used in research? (CO3, K2)

14. (a) Explain the concept of statistical inference. (CO4, K2)

Or

(b) Write a sort note on correlation and coefficients. (CO4, K2)

15. (a) What do you understand by research ethics?
(CO5, K2)

Or

- (b) Analyze the various methods of presenting data.
(CO5, K2)

Part C (5 × 8 = 40)

Answer **all** questions not more than 1000 words each.

16. (a) Elaborate on the spiral scientific method of research with a suitable example.
(CO1, K2)

Or

- (b) Give a brief overview of the different types of research.
(CO1, K2)

17. (a) Provide an overview of the steps involved in writing a research proposal.
(CO2, K3)

Or

- (b) Define sampling. Discuss the techniques of sampling.
(CO2, K3)

18. (a) Analyze the different types of research designs.
(CO3, K2)

Or

- (b) Discuss the various data collection methods.
(CO3, K2)

19. (a) Examine the features of SPSS.
(CO4, K2)

Or

- (b) Give examples of different measures of central tendency.
(CO4, K2)

20. (a) Outline the various tools available for managing references and their advantages. (CO5, K2)

Or

- (b) What is plagiarism? Describe methods to avoid plagiarism. (CO5, K2)
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R3550

Sub. Code

932302

M.L.I.Sc. DEGREE EXAMINATION, NOVEMBER – 2025

Third Semester

Library and Information Science

INFORMATION RETRIEVAL SYSTEMS

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions by choosing the correct option.

1. Which indexing method allows for the combination of terms after the document is indexed? (CO1, K1)
 - (a) Manual indexing
 - (b) Post-coordinated indexing
 - (c) Pre-coordinated indexing
 - (d) Automated indexing

2. Which of the following is NOT a characteristic of an Information Retrieval (IR) system? (CO1, K1)
 - (a) Ranking of documents
 - (b) Personalization of queries
 - (c) Real-time updates
 - (d) Scalability

3. What does citation indexing primarily focus on? (CO2,K2)
 - (a) Keywords in the document
 - (b) Document structure
 - (c) Document authors
 - (d) References or citations in documents

4. Which of the following is NOT a characteristic of a good indexing language? (CO2, K2)
 - (a) Flexibility
 - (b) Ambiguity
 - (c) Precision
 - (d) Exhaustiveness

5. What is the primary purpose of vocabulary control in information retrieval? (CO3, K3)
 - (a) To standardize the terminology used for indexing and searching
 - (b) To ensure consistency in document presentation
 - (c) To reduce the size of the database
 - (d) To improve the graphical representation of documents

6. What is the main advantage of using controlled vocabulary in indexing? (CO3, K3)
 - (a) It increases the complexity of search queries
 - (b) It ensures consistency in search terms
 - (c) It reduces the need for metadata
 - (d) It limits the number of search results

7. Which search strategy allows for searching multiple databases simultaneously and combining their results? (CO4, K4)
- (a) Proximity Search
 - (b) Boolean Search
 - (c) Federated Search
 - (d) Truncated Search
8. Which of the following is a characteristic of a truncated search? (CO4, K4)
- (a) Retrieves documents containing exact terms
 - (b) Requires users to combine terms using Boolean operators
 - (c) Uses wildcard characters to broaden search results
 - (d) Limits search results to documents within a specific proximity
9. What is the primary function of NLP in content development? (CO5, K5)
- (a) To optimize the content for search engines
 - (b) To generate human-like content
 - (c) To format the content for web pages
 - (d) To process and understand human language
10. Which current trend in IR research involves improving search results based on user context? (CO5, K5)
- (a) Contextual search
 - (b) Deep learning
 - (c) Semantic search
 - (d) Personalized search

Part B

(5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Describe the concept and characteristics of an Information Retrieval System. (CO1, K2)

Or

- (b) Distinguish between pre-coordinated and post-coordinated indexing systems. (CO1, K2)

12. (a) Explain the role of computerized indexing in modern information retrieval. (CO3, K3)

Or

- (b) Describe the Citation Indexing: Concept and Utilities. (CO3, K3)

13. (a) Explain about Search formulation. (CO3, K2)

Or

- (b) Illustrate the concept 'Export systems'. (CO3, K2)

14. (a) Explain the importance of a thesaurus in vocabulary control. (CO2, K2)

Or

- (b) Describe the key elements of online search formulation and retrieval. (CO2, K2)

15. (a) Discuss the importance of evaluation criteria such as precision, recall, ratio in assessing the effectiveness of an IR system. (CO3, K3)

Or

- (b) Describe the role of a Content Management System (CMS) in content Development? (CO3, K3)

Part C (5 × 8 = 40)

Answer **all** questions not more than 1000 words each.

16. (a) What are the challenges faced in alphabetical subject indexing? (CO1, K1)

Or

- (b) Write about Subject Indexing: Concept, Principles, Methods, and Systems. (CO1, K1)

17. (a) Discuss the significance of subject heading lists in indexing systems. (CO2, K2)

Or

- (b) Clustering Techniques — Describe. (CO2, K2)

18. (a) Discuss the role of expert systems in intelligent information retrieval. (CO3, K1)

Or

- (b) Define Information Retrieval (IR) Systems and explain, Functions, and Subject Indexing. (CO3, K2)

19. (a) Explain the concept and its purpose in Information Retrieval. (CO2, K2)

Or

- (b) Distinguish between Boolean Search and Proximity Search. (CO2, K2)

20. (a) Explain the significance of Natural Language Processing (NLP) in improving content development and information retrieval. (CO4, K4)

Or

- (b) Discuss the current trends in Information Retrieval (IR) research and their potential impact on content retrieval systems. (CO4, K4)

R3551

Sub. Code

932303

M.L.I.Sc. DEGREE EXAMINATION, NOVEMBER – 2025

Third Semester

Library and Information Science

LIBRARY AUTOMATION

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions by choosing the correct option.

1. The word “automation” has been derived from the Greek word (CO1, K1)
 - (a) Automs
 - (b) Automose
 - (c) Automat
 - (d) Automes
2. Koha has a three-layer architecture that divides the software into three different layers. These are: (CO1, K2)
 - (a) Architecture layer, Software layer, Backend layer
 - (b) Session Layer, Transport layer, Delivery layer
 - (c) Database layer, Programming Layer, Delivery layer
 - (d) Database layer, Processing layer, Formatting layer
3. The announcement of ‘SOUL’ software by INFLIBNET in which convention (CO1, K1)
 - (a) PLANNER
 - (b) Annual Convention
 - (c) NACLIN
 - (d) CALIBER

4. Which International Organization have contributed to the development and distribution of GSDL software? (CO1, K3)
- (a) University of Waikato
 - (b) UNESCO
 - (c) The Human Info NGO
 - (d) All the above
5. Which is the current version of SOUL software? (CO1, K2)
- (a) SOUL 3.0 (b) SOUL 2.0
 - (c) SOUL 1.0 (d) SOUL 4.0
6. MARC was started in the year (CO1, K1)
- (a) 1962 (b) 1975
 - (c) 1966 (d) 1985
7. DELNET was established in the year (CO1, K1)
- (a) 1988 (b) 1978
 - (c) 1968 (d) 1958
8. GSDL was developed by University of (CO1, K2)
- (a) Delhi (b) Waikato
 - (c) Oxford (d) Harvard
9. _____ has setup the INDEST consortium (CO1, K2)
- (a) UGC (b) UNESCO
 - (c) MHRD (d) ILA
10. _____ is the central organization for developing a “consortium for CSIR Laboratories” for accessing e-journals (CO1, K3)
- (a) UGC (b) INFLIBNET
 - (c) DELNET (d) NISCAIR

Part B

(5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Describe the objectives of Library Automation?
(CO1, K1)

Or

- (b) Write a note on OPAC. (CO1, K1)

12. (a) List the general functions of Library Automation Software?
(CO2, K2)

Or

- (b) Explain any two library automation packages of Indian origin.
(CO2, K2)

13. (a) Explain RFID. (CO3, K3)

Or

- (b) Define Z39.50. (CO3, K3)

14. (a) Write a note on Open Source Software. (CO4, K2)

Or

- (b) Explain Library Management Software SOUL.
(CO4, K2)

15. (a) Define OCLC. (CO5, K2)

Or

- (b) Discuss the needs and purpose of automated cataloguing.
(CO5, K2)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Discuss the advantages and disadvantages of Library Automation. (CO1, K2)

Or

- (b) Describe the term Artificial Intelligence. (CO1, K2)

17. (a) Discuss the challenges in Library Automation. (CO2, K2)

Or

- (b) Write brief note on OPAC. (CO2, K2)

18. (a) What are the structure and limitations of CCF. (CO4, K2)

Or

- (b) Aims and objectives of UGC-INFONET Digital Library Consortium. (CO4, K2)

19. (a) Discuss the functions and activities of INFLIBNET. (CO4, K2)

Or

- (b) Explain the history and development of the Library of Congress (LC)? (CO4, K4)

20. (a) Explain the role of DELNET in the library. (CO5, K4)

Or

- (b) What are the differences between the MARC and Dublin core? (CO5, K2)

R3552

Sub. Code

932505

M.L.I.Sc. DEGREE EXAMINATION, NOVEMBER – 2025

Third Semester

Library and Information Science

Elective — INFORMETRICS

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions by choosing the correct option.

1. The term _____ was first proposed by Offonacke of West Germany in 1979. (CO1, K1)
(a) Bibliometrics (b) Infometrics
(c) Webometrics (d) Scientometrics
2. _____ coined the term Librametry to denote measurement of various library activities and services using mathematical and statistical techniques. (CO1, K1)
(a) Offonake
(b) Hulme
(c) Dr. S.R. Ranganathan
(d) Pritchard
3. Samuel C. Bradford first formulated his law in _____ (CO1, K1)
(a) 1934 (b) 1944
(c) 1924 (d) 1954

4. Cluster analysis shares some similarities with Define analysis (CO1, K1)
- (a) Factor (b) Scaling
(c) Tag (d) Difference
5. _____ is the references given at the end of scholarly papers to the articles of documents Previously published (CO1, K2)
- (a) Index (b) Citations
(c) Footnotes (d) None of the above
6. _____ is a method used to establish a subject similarity between two documents. (CO1, K1)
- (a) Cluster analysis
(b) Co-word analysis
(c) Bibliographic coupling
(d) All the above
7. _____ research is explaining phenomena by collecting numerical data that are analyzed using mathematically based methods. (CO1, K2)
- (a) Quantitative (b) Qualitative
(c) Experimental (d) Evaluative
8. Bibexcel was developed by _____ (CO1, K1)
- (a) Dr. S.R. Ranganathan
(b) Ding
(c) Neelamegam
(d) Olle Persson
9. Which journal metric tracks citations of the last two years? (CO1, K1)
- (a) CiteScore (b) Impact Factor
(c) H-index (d) Article Influence

10. Histcite was developed by _____ (CO1, K1)
(a) Eugene Garfield (b) Young
(c) Daim (d) Devarajan

Part B

(5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Define Informetrics. Bring out its applications. (CO1, K1)

Or

- (b) Describe the value and application of Bibliometrics. (CO1, K2)

12. (a) Describe cluster analysis. (CO2, K2)

Or

- (b) Explain Zip's Empirical Law. (CO1, K4)

13. (a) Write in detail Price Theory. (CO2, K2)

Or

- (b) Write a note on Webometrics and Altmetrics. (CO3, K3)

14. (a) Classify Lotka's Law. (CO3, K3)

Or

- (b) Explain Bibexcel software. (CO4, K2)

15. (a) Explain Correspondence analysis with an example. (CO5, K2)

Or

- (b) Discuss Co-word analysis. (CO5, K2)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Discuss the areas of Scientometric studies. (CO1, K2)

Or

- (b) Bring out the features of Science Citation Index (SCI). (CO1, K1)

17. (a) Write a short note on Self citation and Co-citation. (CO2, K2)

Or

- (b) Describe Bibliographic coupling. (CO2, K2)

18. (a) Give the detail in citation indexing. (CO4, K2)

Or

- (b) Write a short note Web of Science and Scopus Database. (CO1, K1)

19. (a) Explain the data analysis tool VOS viewer and Pajex. (CO4, K2)

Or

- (b) Explain Bradford's Law of Scattering. (CO4, K4)

20. (a) Describe Circulation Theory. (CO5, K2)

Or

- (b) Discuss citation analysis? Bring out the application of citation analysis. (CO5, K2)