2012
MLISc. Examination
Fundamentals of Information
Science & Communication
First Paper

Full Marks —100   **Time— 4 Hours**

The figures in the right hand side margin indicate marks.

1. (A) What is meant by Information? What is the nature? Explain the different types of information?   5+5+10

Or,

(B) Distinguish between Information Society and Knowledge Society. Explain your perception of Information Society.   10+10

2. (A) Define data, knowledge, and wisdom. Why does Machlup consider information as a flow and knowledge as a stock? Explain.   10+10

Or,

(B) Explain different types of communication with the help of suitable examples. Explain the basic elements of communication process.   12+8

3. (A) What is national information policy? What should be the main provisions of such a policy? Describe the efforts made in India for formulation of a national information policy?   5+10+5

Or,

(B) What is copyright? What are its advantages? What measures can be taken to protect copyright in digital environment?   3+5+12

4. (A) What do you mean by Marketing of Information? What is meant by market segmentation? Explain the three strategies of market-segmentation?
                                      5+5+10

Or,

(B) What is 'right to information'? Mention the salient features of Right to Information Act of India. Explain the implication of this Act in libraries.
                                      5+10+5

5. Write short notes on any *two* of the following: 10*2

(a) Information Literacy

(b) Internet censorship

(c) Economies of Information and Information Economics.

(d) Transborder data flow.

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2012
MLISc. Examination
Information Analysis,
Consolidation & Repackaging
Second Paper

Full Marks— 100   Time —4 Hours
The figures in the right hand side margin indicate marks.

Answer *all* questions.

1.   Write short notes on any *four* of the following : 5*4
     (a) Knowledge brokers
     (b) Technical digest
     (c) User groups
     (d) Substantive editing
     (e) Standard for bibliographical reference
     (f) Marketing of IACR products.

2. (A) "Repackaging of information refers to the presentation of
   information in more understandable, readable, acceptable and usable
   forms."——Explain the statement. Discuss the need for repackaging of
   information.   12+8

Or,

   (B) Discuss the importance of IACR products. Mention five kinds of
   IACR product. Describe the methodology for preparation of any one of
   them.   5+5+10

3. (A) Explain the importance of standards in information consolidation
   work. Give your critical comments on IS 18 : 1988 Rules for the
   abbreviation of Title words and Titles of publications.   5+15

Or,

(B) What is a Newsletter? Give a few examples of information usually found in a newsletter. Suggest a suitable layout of a newsletter of a library association.   5+5+10

4. (A) What is Technical writing? State the general and special characteristics of Technical writing?   5+15

Or,

(B) What is editing? State the functions of an editor. Distinguish between the functions of a content editor and style editor.   5+5+10

5. (A) What do you mean by 'Information Analysis and Consolidation Centre'? Discuss the activities and products of such a centre.   5+15

Or,

(B) What is 'Content Management'? Mention the objectives of content management. Describe the contents to be included in a library website.
5+5+10

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2012
MLISc. Examination
Information Processing
& Retrieval-I
Third Paper

Full Marks— 50   Time —2 Hours
The figures in the   right   hand side margin indicate marks.

1. Write in brief on any *two* of the following :   10*2

(a) Ontology
(b) Classification of Electronic Resources
(c) BSO
(d) Filing Order

2. (A) Critically evaluate the significance of 'system approach' in organising knowledge in the domain of Applied Science.   15

Or,

(B) What is 'theory of Integrative level'? How is it related to classification? Briefly discuss any three of the laws of integrative level, as suggested by Feibleman.   3+3+9

3. (A) How far Ranganathan's five fundamental categories are found helpful in mapping the Universe of knowledge?   15

Or,

(B) Discuss how classificatory process has been applied in traditional search engines. How can classification schemes be used for better information retrieval by the search engines?   8+7

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2012
MLISc. Examination
Information Processing & Retrieval-II
Fourth Paper

Full Marks– 50   Time —2 Hours

The figures in the right hand side margin indicate marks.

Answer Question No.1 and any *two* from the rest.

1. Distinguish between the concepts belonging to any *two* of the following pairs :   5*2=10

(a) Code and Standard

(b) Assigned Indexing and Derived Indexing

(c) Term Entry System and Item Entry System

(d) Concrete and Process

2. (A) (i)   What do understand by 'Database'?

(ii)   What are the steps to be followed in designing a database ?

(iii) Explain the 'principles' and the 'levels of decisions' required to design a database.

(iv) Discuss their manifestations either in AACR-2R or CCC.

2+4+9+5=20

Or,

(B) (i)   What is an Indexing Language?

(ii)   How does the indexing language differ from the language we use in our day-to- day life?

(iii)   Discuss the functions of different components of an indexing language.   5+6+9=20

3. (A) (i)   What do 'System Effectiveness', 'Cost Effectiveness' and 'Cost benefit' signify in the evaluation of an IR system?

(ii)   'Recall' and 'Precision' tend to vary inversely in searching'- Explain the statement with a performance curve.

(iii)   In response to any inquiry, 720 documents were retrieved from an IR system, out of which 288 documents were relevant. A later investigation showed that out of the remaining 4260 documents another 72 documents were relevant but could not be retrieved. From the above statement, calculate the following :

    (a) Resolution factor
    (b) Pertinency factor
    (c) Recall factor
    (d) Elimination factor
    (e) Noise factor
    (f)Omission factor   9+5+6=20

Or,

(B) (i)   Distinguish between Web Information Retrieval and Traditional Information Retrieval.

(ii)   Write the meaning, scope and pre-requisites of Web Indexing.

(iii)   Discuss how a Subject Directory differs from a Search Engine.
                                                                        8+6+6=20

4. (A) (i) Explain the different types or relationships as displayed in a thesaurus with the help of a thesaurus entry.

(ii) Discuss, with examples, the different types of parameters used in determining the non-hierarchical associative relationship in a thesaurus.
                                                                        8+12=20

Or,

(B) (i) Explain the workflow of the preparation of search strategy with a suitable diagram.

(ii) Discuss, with examples, the use of 'Nesting' and 'Wild Card' in online searching.

(iii) The following tables shows the records of documents arranged sequentially by the Document Identification Numbers (DIN) along with the terms associated with the content of each document (shown by ✓ mark) :

| DIN | TERMS | | | | | | | |
	Machine Tools	Gear Box	Standard	Patent	Design	Production	India	Computers
6581		✓	✓		✓			
6582		✓		✓	✓		✓	
6583	✓				✓			
6584	✓	✓				✓	✓	
6585	✓					✓		
6586		✓			✓			✓
6587		✓			✓		✓	✓
6588	✓	✓				✓	✓	

Generate inverted file for the above document and find out the DIN of each of the following Expression :

(a) (Machine Tools AND Production) NOT Gear Box
(b) {(Machine Tools OR Gear Box) AND (Patent OR Standard)} AND (Production NOT Design)
(c) (Gear Box AND Design AND Computers) NOT India
(d) Gear Box AND (Standard OR Patent)
(e) {(Machine Tools AND Design) OR (Gear Box AND Design) NOT Computers. 6+4+10=20

2012
MLISc. Examination
Information Technology & Library
Automation
Fifth Paper

Full Marks— 75   Time —3 Hours

The figures in the right hand side margin indicate marks.

Answer *all* questions :

1. (A) What do you understand by Information system? What is
   Information Technology? Briefly describe how Information Technology
   influences the Information systems, centres or to provide better services?
   3+2+10=15

Or,

   (B) Identify various services provided by the Library and Information
   Centres. Describe the impact of Information Technology on these services
   from the perspective of the fourth law of Ranganathan.   3+12=15

2. (A) What is 'Operating System' of a computer? Briefly describe various
   types of operating systems with example. What is high level
   programming language? What are the features of high level programming
   language?   2+6+3+4=15

Or,

   (B) Explain various levels of programming languages with block
   diagram. Provide four examples of high level programming language
   indicating their specific usage. Differentiate between (i) Multi-user
   operating system and Single user operating system; (ii) Compiler and
   Interpreter.   5+4+3+3=15

3. (A) Graphically represent the basic structure of a database with example.
   What do you understand by Relational Database Management System?
   How relationship may be built into the Relational Database Structure?
   2+5+8=15

Or,

(B) What is bibliographic database? Give four examples of bibliographic database? Classify various types of databases with example. Briefly point out various elements of MARC record structure. 2+2+3+8=15

4. (A) Briefly explain the role of DARPA in building up Internet architecture. Explain with example the Domain Name System (DNS) and its function in the Internet architecture. 8+7=15

Or,

(B) What are the various wired communication media that are used to build Computer Networking? What is LAN? What are the criteria that differentiate one LAN from other? 10+2+3=15

5. (A) Explain various steps in library automation. What are the best criteria for selection of an Integrated Library Management Software (ILMS)? What criteria may be considered to develop a digital library system? 8+4+3=15

Or,

(B) What do you understand by library automation? Classify and point out the advantages and disadvantages of various Integrated Library Management Software? Briefly explain various components of digital library system. 2+6+7=15

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2012
MLISc. Examination
Information Systems & Networks
Management
Sixth Paper

Full Marks ⎯ 100   **Time ⎯ 4 Hours**

The figures in the right hand side margin indicate marks.

Answer *all* questions :

1. (A) (i) Discuss organizational effectiveness with the help of a model. 10

(ii) Do you agree that change is vital in any organization to avoid stagnation? Discuss. 10

Or,

(B) (i) Enumerate various steps in planning with special reference to 'planning premises'. 10

(ii) Describe in brief the objective and special contribution in the field of Ergonomics by any one of the internationally famous Ergonomics associations. 5+5

2. (A) (i) Discuss how a system can be evaluated. 10

(ii) Define an' interview'. Mention various types of interviews with special reference to Video Interview. 2+8

Or,

(B) (i) Enumerate various sources of funds in relation to financial management of Libraries and Information Centers. 10

(ii) What is the need of budgeting in a library. Briefly discuss different budgeting techniques. 3+7

3. (A) What is a Computer Network? Enumerate the basic and essential components of a computer Network. 6+14

Or,

(B) Define the term 'Open Source Software'. What are its advantages and disadvantages. 6+14

4. (A) Enumerate four major forms of Organizational structure with special reference to bureaucratic structure. 8+12

Or,

(B) What categories of information should be provided to new employees? Discuss with adequate examples. 20

5. (A) Show your acquaintance with any *two* of the following: 10+10

(i) Internet Protocol

(ii) Advantages of Digital library

(iii) Remote Access Server

(iv) UGC INFONET

Or,

(B) Write short notes on any *four* of the following: 5*4

    (i) Quality Audit

    (ii) Reader Activity Area

    (iii) PDQ

    (iv) Delegation of Authority

    (v) Library as a System

    (vi) Types of power

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2012
MLISc. Examination
Research Methodology
Seventh Paper
Part-I

Full Marks——50   **Time——2 Hours**

The figures in the right hand side margin indicate marks.

Answer *all* questions :

1. Write short notes on any *two* of the following :   5*2

    (a) Review of Literature.

    (b) Various methods of collecting qualitative data and quantitative data.

    (c) Variables in Experimental Research.

    (d) Observation and Measurement.

2. (A) Define 'Research'. What are its characteristics? Describe three main categories of 'Research'? Describe three main categories of 'Research'. Explain the importance of studying 'Research Methodology' for M.L.I.Sc. Students.
                                            4+6+6+4

Or,

(B) Explain the characteristics of a good 'Research'. Discuss the contents of a research report. 10+10

3. (A) What do you understand by 'Historical Research'? What are its characteristics? Explain different kinds of 'criticism' required for various sources of information used in historical research. 4+6+10

Or,

(B) What do you understand by 'Descriptive Research'? Explain the importance of questionnaire in Descriptive Research. Discuss the characteristics of an ideal questionnaire. 4+8+8

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2012
M.L.I.Sc. Examination
Quantitative Methods
Seventh Paper
Part-II

Full Marks— 50   Time —2 Hours

The figures in the right hand side margin indicate marks.

Answer *all* questions :

1. (A) What is 'Bibliometry'? How does the scattering of scientific literature affect the periodicals selection in a Special Library? Discuss the laws associated with this phenomenon. 5+8+7

Or,

(B) What parameters are to be considered for designing a questionnaire? What do you mean by Primary and Secondary Data as well as Primary and Secondary Data Sources? 10+10

2. (A) Discuss classification and tabulation of empirical data. Explain various methods of classification of data. 10+10

Or,

(B) Discuss the importance of data presentation. Explain with examples Line Frequency Graphs and Pie-Charts in this context. 10+10

3. Write short notes on any *two* of the following :   5*2

   (a) Citation Analysis
   (b) Sampling
   (c) Librametry
   (d) Correlation

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2010
MLISc. Examination
Research Methodology
Seventh Paper
Part-I

Full Marks— 50   Time —2 Hours
The figures in the right hand side margin indicate marks.

Answer *all* questions :

1. Write short notes on any *two* of the following :   5*2
   (a) Distinguish between 'Research Method' and 'Research Technique'.
   (b) Variables in Experimental Research.
   (c) Ethics of Research.
   (d) Criticism of Sources in Historical Research.

2. (A) Discuss the importance of 'Questionnaire' for data collection in Descriptive Research. Explain the characteristics of an ideal questionnaire.   8+12

Or,

   (B) Discuss the importance of 'Observation' and 'Measurement' for data collection in Experimental Research.   8+12

3. (A) Explain the importance of studying 'Research Methodology' at various levels of LIS courses.   20

Or,

   (B) Discuss the contents of an ideal 'Research Report'.   20

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