

**2011**  
**M.L.I.S.C Examination**

**First Paper**  
**FUNDAMENTALS OF INFORMATION SCIENCE AND COMMUNICATION**

**Full Marks-100**

**Time-Four Hours**

*The figures in the right hand margin indicate marks*

Answer **all** questions

1. (A) Distinguish between data, information and knowledge. Establish their intrinsic relationship in the context of a Library and Information Services. 12+8

Or

(B) What is meant by Information Society? Examine the implications of the Information Society on Information profession. 8+12

2. (A) Explain the different types of Communication media. Discuss how do libraries and information centres serve as communication links. 5+15

Or

(B) Discuss the barriers to communication. 20

3. (A) Define knowledge Society. Briefly discuss the features of Knowledge Society. 8+12

Or

(B) Explain in brief the transformation of 'Idea' to 'Information'. Discuss the significance of information. Describe the factors contributing to the enhancement of the value of information. 5+7+8

4. (A) Distinguish between 'Economics of information' and 'Information economics'. 20

Or

(B) Define 'Communication'. What are the channels of communication? Briefly discuss Non-Verbal and Verbal Communication with suitable examples. 4+6+10

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

- (a) Marketing of information
- (b) National Information Policy of India
- (c) Information Literacy
- (d) Right to Information Act of India.

**Second Paper**  
**INFORMATION ANALYSIS, CONSOLIDATION AND REPACKAGING**

**Full Marks-100**

**Time-Four Hours**

*The figures in the right hand margin indicate marks*

Answer any **five** questions.

1. Write short notes on any four of the following: 5\*4

2. Information brokers

- (a) Dissemination media
- (b) Style manual
- (c) Copy editing
- (d) House journal
- (e) Advances in librarianship

2. (A) Define 'Information Consolidation'. Describe the characteristics of different user groups of IACR products. Explain which type of product will suit each of the groups and why? 3+8+9

Or

(B) What are the IACR products? Describe the steps that you will follow for compiling an Abstracting periodical in any specified field. 5+15

3. (A) Justify the importance of standards in Information consolidation work. Mention the Indian standards relating to IACR. Write a critical note on Indian standards relating to bibliographical reference. 6+5+9

Or

(B) Define 'mass media'. Write functions of mass media. What are the components of mass media? Do you consider the mass media as sources of current awareness services? Give reasons.

4+5+5+6

4. (A) What are the objectives of Technical writing? In how many categories technical writing may be divided? Discuss two of them with examples. 5+3+12

(B) Discuss the major functions of a Technical Editor. What are the skills a Technical Editor is expected to acquire and why? What are the editor's tools? 5+10+5

5. (A) Define 'Information Analysis & Consolidation Centre'. Is there any need to establish an Information Consolidation Unit in a library? What resources are needed for operation of an information Consolidation unit? 5+5+10

Or

(B) Define 'Content Management'. What are the objectives of content management? Describe the contents to be placed in a library website. 4+7+9

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### Third paper

#### INFORMATION PROCESSING & RETRIEVAL-I

**Full Marks-50**

**Time-Two Hours**

*The figures in the right hand margin indicate marks*

Answer **all** questions

1. (A) Write in brief on any two of the following: 10\*2
- (i) Subject Heading List vs. Classification scheme.
  - (ii) Absolute syntax structure of an indexing language.
  - (iii) Importance of the theory of Integrative level.
  - (iv) Root Classification

2. (A) Define a 'subject'. Explain the notion 'subject' as a system? 3+12
- Or

(B) Describe the basic structure of BSO. Evaluate the facet structure of BSO and its relevance in the present day classification. 6+9

3. (A) What are the purposes of designing depth classification schedule? Discuss the method of developing depth schedule applying faceted principles. 4+11

(B) Analyse the role of facet structure of subject in developing ontology for organizing information in the semantic web.

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### Fourth paper

#### INFORMATION PROCESSING & RETRIEVAL-II

**Full Marks-50**

**Time-Two Hours**

*The figures in the right hand margin indicate marks*

Answer Question No. **1** and any **Two** From the rest.

1. Answer any **Two** of the Following questions :

5\*2=10

- (a) In what sense an indexing language is an artificial language ?
- (b) How is an organizing classification supplemented associative classification?
- (c) Distinguish between 'Semantic factoring' and 'Syntactic factoring'.
- (d) Distinguish between 'Qualifier' and 'scope Note' as used in thesaurus.

2. (A) Explain the operational stages of information processing and retrieval system with the help of a suitable diagram. 20

or

(B) Critically discuss, with examples, the contribution of C.A. Cutter and J. Kaiser towards the solution of problem related to the compound subject headings. 20

3. (A)(i) What are the two-fold objectives of vocabulary control device ?

(ii) How are these objectives achieved in an IR System? 8+12

or

(B)(i) Define 'Thesaurus' in terms of its functions & structure.

(ii) Describe the steps to be followed in designing a mono-lingual thesaurus in a subject of your choice. 5+15

4. (A)(i) What do you mean by 'Role Operator' and 'Input String'?

(ii) Explain, with examples, different formats of index entries generated according to PRECIES. 8+12

or

(B)(i) What is deep structure of subject indexing languages?

(ii) Explain, with a schematic diagram, the 'Elementary Categories' and 'Modifiers' constituting the deep structure of subject indexing languages. 8+12

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## Fifth paper

### INFORMATION TECHNOLOGY & LIBRARY AUTOMATION (THEORY)

Full Marks-75

Time-Three Hours

*The figures in the right hand margin indicate marks*

Answer **all** questions.

1. (A) What is XML ? Briefly point out the advantages of MARC-XML. Explain the 'Tree Structure form' of a document by using XML with example. 2+3+10

(B) What is Java? Briefly point out the Characteristics of Java programming Language. Explain with flow chart diagram of any software development process. 2+5+8

2. (A) Briefly describe various Library Automation Standards. What are the advantages and disadvantages of 'Turnkey' Library automation Package? Mention the Landmarks in the development Library Automation system. 5+5+5

or

(B) Describe the strategies for implementation and integration of a Library Management Software. Which organizations did play important role in Library automation movement in India? What factors did help them to do so? 8+3+4

3. (A) What do you mean by 'Metadata'? Mention various types of metadata scheme. Describe the common role played by different Metadata scheme. 3+2+10

or

(B) What is 'Metadata Registry'? Briefly point out common characteristics of 'Metadata Registry'. Explain various relationship that can be built in a network architecture. 3+4+8

4. (A) What are the features of Hierarchical data model? What is data normalization? Briefly point out the guidelines for developing relations in 3<sup>rd</sup> normal form .4+3+8

or

(B) Briefly explain 'Network data model'. What are the various 'keys' used in relational data model? Explain the process of procurement of books in a library with the help of an ER diagram. 4+3+8

5. (A) What components are required for developing digital library environment? Graphically explain the operational structure of a Digital Library. What is metadata harvesting and its prerequisites?3+6+6

(B) What are the technical requirement for developing a Digital Library? Graphically represent the technical architecture of a Digital Library. Explain how does OAI-PHM work?3+6+6

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## Sixth Paper

### INFORMATION SYSTEMS & NETWORKS MANAGEMENT

Full Marks-100

Time-Four Hours

*The figures in the right hand margin indicate marks*

Answer **all** questions.

1. (A) 'Why organizations are being designed? Is it only to attain their goals?' Discuss. 6+14

or

(B) What is 'Grievance'? Discuss the nature of grievance. Explain the causes and guiding principles for a grievance redressal procedure. 2+8+10

2. (A) Define 'Power'. Discuss in this connection various sources or power. 4+16

Or

(B) Do you think that 'change' is one of the most critical aspects of effective management? Discuss in this connection the impact of change on libraries. 10+10

3. (A) Enumerate the characteristics of planning and state how far it is a mental activity. 10+10

Or

(B) What is 'Systems Proposal'? Discuss in this connection what we actually do in finding facts. 4+16

4. (A) Discuss the space requirement activities carried out in 'Circulation Area', 'Seminar Hall', 'Building section' and 'Reprography Section'. 20

Or

(B) Define the term 'Ergonomics' and write notes on 'Physical', 'Cognitive' and 'Organisational' ergonomics. 5+15

5. (A)(i) Enumerate the steps involved in designing a website.

(ii) How to evaluate a website? 10+10

Or

(B) Write short note on any four of the following 5\*4

(i) INDEST Consortium

(ii) Computer network service

- (iii) Benefits of a library network
  - (iv) PPBS
  - (v) Quality Assurance
  - (vi) Key concepts of Marketing
  - (vii) A model for Human Resource Planning (HRP)
  - (viii) Training methods
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## Seventh Paper Part-I

### RESEARCH METHODOLOGY

Full Marks – 50

Time – Two Hours

The figures in the right hand margin indicate marks

Answer all questions.

1. Write short notes on any two of the following: 5\*2
    - (a) Role of hypothesis in Research
    - (b) Formulation of problem in Research.
    - (c) Webliography.
    - (d) Characteristics of a good questionnaire.
  2. (A) Define 'Experimental Research'. Explain the characteristics of Experimental Research. What do you understand by the variables in Experimental research? What are their kinds? Explain. 5+5+5+5  
Or  
(B) Explain the meaning and significance of 'Research Design'. 20
  3. (A) What do you mean by 'Descriptive Method' of Research? Mention its kinds. What is 'Case Study' method of research? What are its merits in research? Explain briefly. 5+3+4+8  
  
(B) What do you understand by 'Historical Method of Research'? Explain briefly criticisms of sources required for historical research. 10+10
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## Seventh Paper Part-II

### QUANTITATIVE METHODS

Full Marks-50

Time-Two Hours

*The figures in the right hand margin indicate marks*

Answer any **ALL** questions.

- 1(A) Describe the steps involved in conducting a statistical investigation. What do you mean by "Primary Data" and "secondary Data"? What are the sources of primary and secondary data? Briefly describe the method of data collection? 8+2+4+6  
OR  
(B) Describe in brief the aspect to be considered and precautions to be taken while developing a questionnaire. Elucidate the concept of 'Classification' & 'Tabulation' of collected empirical Data. 12+8
- 2(A) What are the basic objectives of presentation of Data? Describe briefly a few popular types of diagrammatic & graphical presentation of statistical data with example. When & why is false base line used in graphs? 5+10+5  
(B) What do you mean by scattering of scientific literature? Elucidate Bradford's Law of Scattering. What is obsolescence and half life of scientific literature? What is Bibliographic Coupling? 5+5+5+5
3. Write short notes on any Two of the following: 5 X 2
  - (a) Queuing Theory
  - (b) Lotka's Law
  - (c) Standard Deviation
  - (d) Correlation Ratio/Coefficient