

2008
M.L.I.Sc.Examination
Rabindra Bharati University

First paper
Fundamentals of information science & communication
Full marks-100

Answer all the questions.

1. Write short notes on any four of the following: 5x4
- (a) Barriers of Communication.
 - (b) Information as a Commodity
 - (c) Components of Information system
 - (d) Transborder data flow
 - (e) Information as a flow and knowledge as stock
2. (A) Explain the basis elements of a communication process. Examine the different elements in the context of Shannon-Weaver model. Mention other prominent model of Communication. 5+10+5
Or
(B) What do you understand by marketing? Discuss how information can be marketed in a library? 5+15
3. (A) Explain the concept of "National Information Policy" and discuss its need. Discuss the various issues involved in it. 5+5+10
Or
(B) Compare the basic feature of data, information and knowledge. Discuss their significance in the context of library and information services. 12+8
4. (A) What is Right to information? Discuss the salient features of RTI Act of India. 5+15
Or
(B) Difference between explicit knowledge and tacit knowledge. How are they related to knowledge management? Discuss the advantages of knowledge management in an organization. 5+5+10
5. (A) Explain what is meant by the Information Society/ What are its attributes? Examine the role of the library and information services in such a society. 7+7+6
Or
(B) Discuss the importance of information in social development.

Second paper
Information Analysis, Consolidation and Repackaging
Full Marks-100

Answer all questions.

1. Write short notes on any four of the following: 5x4
- (a) Information brokers
 - (b) Style manual
 - (c) ARIST
 - (d) Copy editing
 - (e) User groups of IACR products (types and needs)
 - (f) Proof reading (purpose and method)
2. (A) Define 'Information Consolidation'. Explain the scope of IACR. Discuss different formats and media of packaging and repackaging indicating the advantages of each. 5+6+9
Or
(B) Introduce atleast three kinds of IACR products known to you? Describe the methodology for preparation of any one of them. 6+14

3. (A) Do you think standards have a role in information Consolidation activities ?Justify. Mention the Indian Standards relating to IACR. Write a critical note on Inaian Standard relating to bibliographical references. 5+5+10
Or
(B) Discuss the need of a 'guide to user'in an IACR product.Draft a guide to user for an IACR product of your choice? 6+14
4. (A) Define the term 'Technical writing'.How does creative writing differ from technical writing ? Discuss the steps to be followed in technical writing. 2+3+15
Or
(B)What is editing ? State the functions of an editor. Critically examine the skills needed for an editor. 4+6+10
5. (A) What is 'mass media' ? Describe the functions of mass media . What are the components of mass mass media ? Do you consider the mass media as sources of current awerness service? Justify. 5+5+4+6
or
(B) Define content management . What are the objectives of content management? What characteristics are to be considered for creation of a website ? 4+7+9

Third paper

Information processing & Retrival-1

Full marks-50

The figures in the right hand side margin indicate marks.

Answer all the questions.

1. Write short notes on any two of the following: 5x2
- (a) Board system of ordering
 - (b) Classification as Science.
 - (c) Auto classification
 - (d) Subject as a system.
2. (A) Describe the theory of Integrative level. To what extent can the theory be accepted as the basis for a good alternative to the existing models for arrangement of subjects in a scheme? 15+5
Or
(B) What do you mean Absolute syntax' Describe the consistuent elements of any subject in this connection. Compare facet Syntax and linguistic syntax with suitable examples. 4+6+10
3. (A) Describe in brief the methodology for designing a depth Classification schedule. Comment on the usefulness of Faceted module in this regard. 14+6
Or
(B) Compare UDC and CC highlighting there important features with suitable examples. 20

Fourth Paper

Information Processing & Retrieval-II

Full Marks – 50

Answer all questions.

1. Answer any two of the following : 5x2
- (a) Differentiate with examples 'Principles' and 'Rules'.
 - (b) Write short notes on MARC 21.
 - (c) A thesaurus entry has been provided bellow. Write down the possible reciprocal entries for the same :

ENVIRONMENTAL POLLUTION
UF Pollution
BT Environmental Science
NT Air Pollution
Sound Pollution
Water Pollution

RT Environmental Hazards
Global warming
Pollutants

- (e) In response to an inquiry 120 documents were retrieved from an IR system, out of which 48 were relevant. A later investigation showed that out of the remaining 710 documents, another 12 documents were relevant, but could not be retrieved.

Calculate the recall and precision ratios of the system.

- 2.(A) What do you mean by evaluation of IR System? What are its objectives? What are its objectives? What do system effectiveness, Cost-effectiveness and cost benefits signify in the evaluation of an IR system. 4+4+12

Or

- (B) Define 'Thesaurus' in terms of its functions and structure. Describe the steps to be followed in designing a monolingual thesaurus on a subject of your choice. 5+15

2. (A) " IR system can be viewed as a set of interrelated entities and processes." -Explain the statement. 20

Or

- (B) How to formulate a search strategy? What is Boolean search? Discuss, with examples, the use of different types of Boolean operators in an online IR system.

Fifth Paper

Information Technology and Library Automation

Full Marks -75

Answer all questions

1. Answer the following question : 1x10
- (i) Give an example of semiconductor memory?
 - (ii) How do you define a virtual library?
 - (iii) What is the DNS in the context of Networking?
 - (iv) How many segments are there in an IP Number?
 - (v) How many elements are there in DC Metadata?
 - (vi) Give two example of LMS?
 - (vii) What is the full form of OAI-PMH?
 - (viii) What is the range of Bengali alphabets in UNICODE?
 - (ix) What is metadata harvester?
 - (x) What is search engine?
2. Differentiate between (any three) : 2x 3
- (i) Web Browser & Web Server
 - (ii) ASCII &ISCI I
 - (iii) Z39.50 &OAI-PMH
 - (iv) FTP &HTTP
3. Write short notes of any three of the following : 3x3
- (i) TCP/IP
 - (ii)Coaxial Cable
 - (iii) Star Topology
 - (iv)ASP
 - (v) RDBMS
4. Answer any five of the following questions:
- (i) What is data normalization? Explain E-R model in the context of Library database. 2+8
 - (ii) What are the advantages of Library website? Design a basic structure of a Library home page by using HTML code .

- (iii) What is metadata? Discuss various elements of DC metadata scheme. 2+8
- (iv) What is Digital Library ? What are the basic principles to design a Digital Library? Briefly discuss about various components of a Digital Library. 2+8
2+4+4
- (v) What are the needs of Library Automation ? Give two examples of Library Automation Standards. Briefly discuss various steps for implementation of Library Automation . 3+1+6
- (vi) What is UNICODE ? What is the scope of UNICODE? Discuss The key features of UNICODE. Clarify with suitable example The usage of Bengali 'reph'and 'Ya-phala' in UNICODE. 11/2 +11/2+3+4

Sixth Paper

Information System And Networks Management

Full marks-100

Answer all questions

- 1.(A) Enumerate various types of power and explain the constraints which limit the attempts to exercise power. 20
- or
- (B) Analyse the major forms of organizational structure. Discuss in this connection the special features of a bureaucratic structure. 15+5
- 2.(A) 'Change is very essence of growth of any organization.' Discuss in this connection the 'management of change' in an organization . 20
- or
- (B) Discuss the methods for assessing the needs for marketing of information products and services in a library and information center. 20
- 3.(A) Discuss the various components in human resource management with special reference to 'motivation' . 20
- or
- (B) What are the various factors in planning Discuss in this connection the important of Time factor . 12+8
- 4.(A) Name the four broad service areas, along with their allied and areas in a library and information center . Discuss the factor to be considered for cataloguing space requirements in a university library .
- or
- (B) What do you mean 'Ergonomics' ? What Ergonomical factors should be considered while planning the interior of a large library. Discuss. 5+15
- 5.(A)(i) Enumerate the steps involved in designing a website. 10+10
- (ii) Show your acquaintance with any two of the following.
- (i) INDEST Consortium.
- (ii) System design
- (iii) Component of a digital library.
- Or
- (B) (i) State the benefits of a library network. 4+16
- (ii) Write short notes on any two of the following.
- (i) TQM
- (ii) Principles of financial management
- (iii) Organizational design.

Seventh Paper Research Methodology Part-I

Full Marks-50

Answer all questions

1. Answer any **two** of the following: 5x2
- (a) Explain different kinds of variables in experimental research.
 - (b) Write notes on the criticism of data collected in historical research.
 - (c) Why is study of Research Methodology essential for the students of Library and Information Science? Give reasons.
 - (d) Write short note on either 'Null Hypothesis' or 'Webliography'.
2. (A) Define 'Research', 'Research Methods' and 'Research Techniques'. Mention the characteristics of 'Research'. Describe the three main categories of research. Distinguish between research method and research technique. 3+3+6+8
- (B) What do you mean by 'hypothesis'? What are its characteristics? Discuss the importance of hypothesis in research. 4+6+10
3. (A) Discuss What should be the contents and characteristics of an ideal research report. What precautions should be taken while writing a research report? 14+6

Or

- (B) Explain what do you understand by historical research? What steps should be followed in historical research? 12+8

Seventh Paper Quantitative methods Part-2 Full Marks-50

Answer all questions

1. Write short notes on any two of the following : 5x2
- (a) Designing a questionnaire;
 - (b) Lorenz curve;
 - (c) Queueing Theory
 - (d) Bradford's Law of scattering;
 - (e) Lotka's law;
 - (f) Bibliographic coupling.
2. (A) Describe the steps involved in conducting a statistical investigation. What are primary data and secondary data. What are the sources and methods of collection of primary and secondary data.

Or

(B) Elucidate the Concept of “classification and tabulation of collected data. What are the objectives of classification of data? briefly highlight the different types of classification of data