

**RABINDRA BHARATI UNIVERSITY**  
**2018**

**M.Lib.I.Sc. First Semester Examination**

**Course – 101**

**Information and Communication**

**Full Marks – 40**

**Time – 2 Hours**

*The figures in right hand side margin indicate marks.*

1. Answer **all ten** questions. 1×10=10
    - i. Give the root of the word 'communication'.
    - ii. Define tacit Knowledge.
    - iii. Define Information storage & Retrieval System.
    - iv. What are the components of Shannon & Weaver's model of communication?
    - v. What is cross language retrieval?
    - vi. Which is the first model of IR?
    - vii. Bayesian network model was proposed by whom and when?
    - viii. Who evolved the concept of RDBMS?
    - ix. Helical model of communication was proposed by whom?
    - x. Paralinguistic communication takes place through which mode?
    - xi. What is 'Flow of Information'?
    - xii. Give three examples of the mode of scholarly communication.
  
  2. Answer **any two** questions: 5×2=10
    - i. Discuss the characteristics of Information Society.
    - ii. What is the relation between data, information and knowledge?
    - iii. Briefly describe the various types of encoders and decoders in the communication process in a library system.
  
  3. Answer **any two** questions: 10×2=20
    - i. What factors led to transformation of library science in information science? Discuss.
    - ii. Compare and contrast **any four** models of communication.
    - iii. Write a note on the nonverbal channels of communication.
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# RABINDRA BHARATI UNIVERSITY

2018

## M.Lib.I.Sc. First Semester Examination

Course- 102

### Information Analysis & Consolidation repackaging

Full Marks- 40

Time- 2 Hours

The figures in the right hand side margin indicate marks.

1. Answer **any ten** questions: 1×10=10
  - (i) Give an example of condensing publication and mention its utility?
  - (ii) Categorize reviews according to Saracevic and Wood.
  - (iii) What is 'thumb-nail' publication?
  - (iv) Explain the difference between information service and information product.
  - (v) Name any two IAC centres in India.
  - (vi) Mention two features of gazetteers.
  - (vii) What is 'Repackaging of Information'.
  - (viii) Name of abstracting periodical on Science and technology published from India.
  - (ix) What is the difference between 'Handbook' and 'Manual'.
  - (x) Who propounded the Anomalous state of knowledge (ASK) model.
  - (xi) What is 'Information Need'?
  - (xii) Give an example of Annual Review.
2. Write short notes on **any two** of the following: 5×2=10
  - (i) Technical digest
  - (ii) Marketing mix
  - (iii) User group of IACR projects.
3. Answer **any two** of the following questions: 10×2=20
  - (i) Describe the methodology of developing an Information Analysis and Consolidation product. 10
  - (ii) Discuss the need for IACR products. Mention different kind of IACR product.  
Discuss briefly the characteristics of any one kind of product. 2+5+3
  - (iii) Explain the needs of studying information seeking behavior. 4+6

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**RABINDRA BHARATI UNIVERSITY**  
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**M.Lib.I.Sc. First Semester Examination**

**Course – 103**

**Information Processing Theory**

**Full Marks – 40**

**Time – 2 Hours**

*The figures in right hand side margin indicate marks.*

1. Answer **all ten** questions. 1×10=10
    - i. Who is the pioneer of General Systems Theory?
    - ii. Which area of Philosophy deals with ontology?
    - iii. What is 'Classaurus'?
    - iv. What is collaboratively generated open ended labels?
    - v. What is 'Subject Tree'?
    - vi. What is the full form of ADAM?
    - vii. Name two core Members of CRG?
    - viii. Which types of Indexing Language are used in IR systems?
    - ix. What are the characteristics of an Indexing Language?
    - x. Give an example of thesaurus?
    - xi. What is free Indexing Language?
    - xii. Name any two derived Indexing Systems.
  2. Write short notes on **any two** of the following: 5×2=10
    - i. General System Theory
    - ii. BSO
    - iii. Content analysis
  3. Answer **any two** of the following questions:
    - i. What is 'absolute syntax'? Briefly discuss its usefulness. 4+6
    - ii. What do you understand by "Intellectual Organization" in the context of IR system? Explain the features of Intellectual Organization of Information for accessibility of Information. 4+6
    - iii. What are the objectives of designing a Library Classification Scheme? Explain briefly the method of designing a classification scheme. 3+7
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**RABINDRA BHARATI UNIVERSITY**  
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**M.Lib.I.Sc. First Semester Examination**

**Course – 104**

**Resource Description Theory**

**Full Marks – 40**

**Time – 2 Hours**

*The figures in right hand side margin indicate marks.*

1. Answer **all ten** questions. 1×10=10
  - i. What is 'Bibliography Organization'?
  - ii. Define 'Thesaurofacet'.
  - iii. What is 'Syntactic Structure'?
  - iv. In what sense an Indexing language is an artificial language?
  - v. Why is the class number of a document taken as the base for deriving different types of subject headings according to chain indexing?
  - vi. What are the different elementary categories of POPSI?
  - vii. What does 'Terminal digit posting' signify in post-coordinate indexing?
  - viii. What does the evaluation of IR system signify to the users as well as manager of the IR system?
  - ix. Under whose supervision the Aslib-Cranfield project was carried out?
  - x. By whom TEI is sponsored?
  - xi. How many fields are there in the ISO 2709?
  - xii. What is the full form of GILS?
2. Write short notes on any two of the following with reference to the points given within parenthesis: 5×2
  - i. 'Nesting' and 'Wild Card' (Meaning and their use in online searching).
  - ii. Thesaurus and Classurus (Meaning and differences).
  - iii. FRBR (Full form and scope of different 'Groups').
3. Answer any two questions:
  - i. a) What are the main advantages of MARC 21 format?  
b) Define the following concepts associated with MARC 21 format:
    - A) Tag
    - B) Indicator
    - C) Sub-field codes
    - D) Delimiters4+6
  - ii. a) What do you mean by 'Vocabulary Control'?  
b) Briefly describe the different methods of vocabulary control with illustrative examples. 2+8

- iii. a) What do 'time criteria', 'cost criteria' and 'quality criteria' signify in measuring the system effectiveness of an IR system?
- b) The following matrix shows the relevance judgment of a search result in an IR system:

	Users' Relevance Judgment		
	Relevant Records	Non-relevant Records	Total
Retrieved Records	144	256	400
Records not Retrieved	96	504	600
Total	240	760	1000

Calculate the Recall Ratio and Precision Ratio from the above matrix.

6+4

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**RABINDRA BHARATI UNIVERSITY**  
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**M.Lib.I.Sc. First Semester Examination**

**Course – 105**

**Information Communication Technology (Theory)**

**Full Marks – 40**

**Time – 2 Hours**

*The figures in right hand side margin indicate marks.*

1. Answer **all ten** questions. 1×10
- i) What is worldcat?
  - ii) Who designed the Relational Model of database?
  - iii) Which of the following is not a component of search engine? a) Spider b) TCP/IP c) Search Mechanism d) Index
  - iv) What is webzine?
  - v) What is a 'tiff' file?
  - vi) In web search, finding a large number of documents with very little relevant information is known by which term?
  - vii) In which normal form, a composite attribute is converted to individual attribute?
  - viii) A relational database consists of a collection of what type of files?
  - ix) A data Manipulation language is used for which purpose?
  - x) What is the full form of ODBC?
  - xi) What is SQL?
  - xii) Who coined the term 'Web 2.0'?
2. Write short notes on any two of the following: 5×2
- i) RSS
  - ii) Wiki
  - iii) Data Transmission
3. Answer any two question:
- i) a) What are the advantages of three tier architecture of a database? 4  
b) What is a Content Management system? Point out its purpose and benefits. 2+4
  - ii) a) Write the basic features of Web 2.0. 5  
b) What is an instance of a database? Give example. 5
  - iii) a) Describe the advantages and disadvantages of entity relationship data Model. 4  
b) Describe functions of various layers of TCP/IP reference Model. 6
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**RABINDRA BHARATI UNIVERSITY**  
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**M.Lib.I.Sc. First Semester Examination**

**Course – 106**

**Management of Information System & Organization**

**Full Marks – 40**

**Time – 2 Hours**

*The figures in right hand side margin indicate marks.*

1. Answer **all ten** questions. 1×10
  - i. Name the four prime resources of library.
  - ii. Which Commission emphasized the ‘Establishment of libraries in schools and colleges’ and in which year?
  - iii. Who propounded management by Objectives (MBO) and in which year?
  - iv. What is the full form of acronym PODSCORB?
  - v. Name any two types of budget.
  - vi. Name one international standard for library performance indicator.
  - vii. Mention any four major items of expenditure of libraries.
  - viii. What is meant by ‘Offshore outsourcing’?
  - ix. Which states of India collect library cess?
  - x. Which state in India provide grants to public libraries on the basis of land revenue collection?
  - xi. Mention at least three personal qualities of library and information professionals.
  - xii. Define ‘Human Resource Management’ propounded by Flipppo.
2. Write short notes on any two of the following: 5×2
  - i. Different categories of library stuff in a modern library.
  - ii. Cost-benefit analysis
  - iii. Principles of organization
3. Answer any two of the following questions:
  - i. What do you mean by ‘Resource Mobilization’? Explain the sources and method of resource mobilization in a library. 3+7
  - ii. Elucidate the objective of Human Resource Management in library. Highlight the functions of Human Resource Manager. Discuss the recruitment and selection process in an academic library. 3+2+5
  - iii. “Planning has value only if it is transformed into action.” In connection with the above statement explain the importance of planning in libraries. Discuss in brief the various factors in planning. 5+5

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**Course – 107**

**Research Methodology**

**Full Marks – 40**

**Time – 2 Hours**

*The figures in right hand side margin indicate marks.*

1. Answer **all ten** questions. 1×10
  - i. Formulation of fundamental law is which kind of research?
  - ii. What is Relics?
  - iii. Name the process used for determining the authenticity and accuracy of documents used in historical research.
  - iv. Controlled group condition is applied in which kind of research?
  - v. What is hypottiesis?
  - vi. What is universe of population?
  - vii. What is convenience sampling?
  - viii. What is sampling error?
  - ix. What is a precoded questionnaire?
  - x. What is the use of 'ibid'?
  - xi. APA citation guide is an initiative of which organization?
  - xii. What is Indirect observation?
2. Write short notes of any two of the following: 5×2
  - i. Research Design (Meaning and different phases)
  - ii. Participant vs. non-participant Observation.
  - iii. Quota sampling vs. multistage sampling.
3. Answer any two of the following questions: 10×2
  1. Describe Ranganatha's spiral of Scientific Method and justify whether Library and Information Science can be called a science.
  2. a) "Pure research lays the golden egg, applied research hatches it" – explain the statement with suitable examples. 5  
b) What do 'control group' and 'experimental group' signify in the design of an experimental research? Illustrate your answer with examples. 5
  3. Name the various tools for data collection in survey research. Discuss how to prepare a good questionnaire. 2+8

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**RABINDRA BHARATI UNIVERSITY**  
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**M.Lib.I.Sc. First Semester Examination**

**Course – 108**

**Information Communication Technology (Practical)**

**Full Marks – 40**

**Time – 2 Hours**

*The figures in right hand side margin indicate marks.*

Answer **any four** questions.

1. i) Write Php code to get the php version and configuration information and show the result. 5+5  
ii) Write Php code to connect MySQL database from the browser.
  2. i) Write SQL statement to create a table name 'Student' in MySQL with columns student-id, Student-name and student-address.  
ii) Enter five valid records using SQL statement into the above table. 5+5
  3. Write SQL Syntax for the following queries and test the result with the database as designed in Question No. 2. 2½×4
    - a) Find the student name that have 'r' in the second position.
    - b) Address that have 'cal' in any position.
    - c) The name that starts with 'T' and ends with 's'.
    - d) Address that does not start with 'a'.
  4. Prepare issue records of 5 books to 5 users using XML. 10
  5. Write steps to send order of 5 books (with valid record) to the vendor and steps to receive them from the vendor using KOHA.
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