# RABINDRA BHARATI UNIVERSITY
## 2017
## 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.*

Answer **all** questions.

1. Write short notes on **any two** of the following:                                            5x2

   a) Obsolescence of information.
   b) Explicit knowledge and tacit knowledge.
   c) Relation of Information Science with Humanities.
   d) Peer Review Process.

2. a) i) Explain the concept of 'Information Society'.

   ii) What are the essential criteria for designing an Information Storage and Retrieval System?                                                                                         10+5

### Or

   b) i) Discuss the intrinsic relationship between Date, Information and Knowledge in the context of Library and Information Science.

   ii) Name some early information activities which were the precursors of development of information science.                                                                         9+6

3. a) Define 'Communication'. What are the different types of communication? Briefly describe **any two** models of communication.                                                           3+5+7

### Or

   b) Discuss different barriers to communication of information.                               15

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# RABINDRA BHARATI UNIVERSITY
## 2017
## M.Lib.I.Sc. First Semester Examination
## Course – 102
## Information and Communication Technology (Theory)

**Full Marks – 40**                                                    **Time – 2 Hours**

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

Answer **all** questions.

1. Write short notes on **any two** of the following:                          5x2

   a. LISA
   b. Trend Report
   c. IAC Products
   d. News letter

2. a) Explain the term 'Information Consolidation' from the part of view of Saracevic and Wood. Discuss the benefit of Information Consolidation.                          5+10

<div align="center">

***Or***

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   b) Describe the major steps involved in the process of Information Analysis and Consolidation. In this context, highlight the selection Policy and Selection Aids for IA & C.

<div align="right">10+5</div>

3. a) Explain the terms 'Information need' and 'Information seeking behavior'. Describe any two models of information seeking behavior.                          7+8

<div align="center">

***Or***

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   b) Discuss the criteria that can be used for evaluation of information Sources? Introduce different user groups of IACR Products.                          10+5

<div align="center">

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# RABINDRA BHARATI UNIVERSITY
## 2017
## 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.*

Answer **all** questions.

1. a) What is 'Universe of Subjects'? Explain the different modes of formation of subjects with suitable examples.                                                                 3+4+8

### *Or*

   b) What are the attributes of Universe of Subjects? Briefly discuss the 'Theory of Integrative level'.                                                                                 5+10

2. a) What is 'Absolute syntax'? Explain the generalized facet structure for subject with example.                                                                                          5+10

### *Or*

   b) Discuss the need for vocabulary control in Indexing. Explain different methods of Vocabulary Control with example.                                                            5+10

3. Write short notes on **any two** of the following:                                            5x2

   a.  Auto Classification
   b.  Web Dewey
   c.  Outology
   d.  Social Classification

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# RABINDRA BHARATI UNIVERSITY
## 2017
## 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.*

Answer *all* questions.

1. Write short notes on *any two* of the following:                        5x2

   a. TEI
   b. Indexing language
   c. Abstract relationship and concrete relationship in knowledge organization.
   d. Cross references in subject heading

2. a) What are the different criteria and in evaluation on IR system.          15

*Or*

   b) How do you distinguish between the efficiency and effectiveness off IR system? State the rules for the construction of subject headings according to any list of subject headings.     5+10

3. a)  i) What is FRBR?

   ii) Briefly explain FRBR Group – 1, Group – 2 and Group – 3 entities relationships.

   iii) Discuss the different tags and subfield codes of MARC-21 format for the following areas of AACR-2R;

   a. Title and statement of responsibility Area.
   b. Edition Area
   c. Publication, Distribution etc. Area                                  4+5+6

*Or*

   b)  i) Discuss the various steps involved in evaluation of and IR system.

   ii) What are the differences between Boolean Search and Proximity Search?          10+5

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# RABINDRA BHARATI UNIVERSITY
## 2017
## M.Lib.I.Sc. First Semester Examination
## Course – **105**
## Information and Communication Technology (Theory)

**Full Marks – 40**                                              **Time – 2 Hours**

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

Answer **all** questions.

1.  Write short notes on **any two** of the following:                          5x2
    a. Data convergence.
    b. Switched network.
    c. Asynchronous transmission Vs Synchronous transmission.
    d. Content Management Typology.

2. a) i. State three stages involved in the development of any technology according to Manfred Kochen.                                                                     3

    ii)  Briefly explain various categories of objectives of using Information Technology in Libraries.                                                                     4

    iii) What is 'data networking'?                                              2

    iv) What factors are responsible for the development of ISDN? Point out what services can be availed of from ISDN.                                              4+2

<p align="center"><em>Or</em></p>

  b) i. Elucidate the impact of Information Technology devices on library operation.       5

    ii. What is 'data unit' in data networking?                                 2

    iii. How many links are required for 9000 subscribers in a fully connected Network?     2

    iv. Classify the data communication standards. Describe various layers in the OIS Model.                                                                      2+4

3. a) i. What are the significant disadvantages of simple file oriented approach to information processing?                                                                   5

    ii. Which Normal Form aims at removing duplicate data? Explain briefly that Normal Form with example.                                                            10

<p align="center"><em>Or</em></p>

b) i. What 'data models' are available for a database? Explain briefly **any one** of them.     5

  ii. What are the advantages and disadvantages of relational approach in database?     5

  iii. Explain the role of indexes in web database search.                           5

# RABINDRA BHARATI UNIVERSITY
## 2017
## 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.*
Answer **all** questions.

1. Write short notes on **any two** of the following:                        5x2
    a) LMBO
    b) Matrix Organizational Structure
    c) Line-by-line budgeting
    d) Job analysis

2. a) i) What are the major forms of organizational structure? Discuss in this connection the special features of a Bureaucratic structure.                        3+5
    ii) Make a comparative study between University Library finance and Public Library finance in our country.                        7

*Or*

   b) i) "Organizational design is the discipline of (re) designing organizations and its organizational structure." Elaborate the above statement in connection with Jay R. Galbraith's 'Star model' of organizational design.                        6
    ii) Mention the need of budgeting in a library. Name the different types of budgeting method. Give a comparative account of 'programme' Budgeting and 'Performance' Budgeting.                        3+2+4

3. a) i) What do you understand by 'Planning'? What are the steps involved in the planning process? Elaborate.                        3+4
    ii) Define 'Training'. Discuss the importance of continuing education for library professionals.                        3+5

*Or*

   b) i) "Short-range planning is concerned with determined of short-range activities to accomplish long-term results." Discuss.                        5
    ii) What is "Human Resource Management" How does is differ from 'Human Resource Planning'? Briefly discuss the various factors that can influence Human Resource Planning of an institution.                        2+3+5

# RABINDRA BHARATI UNIVERSITY
## 2017
## M.Lib.I.Sc. First Semester Examination
## Course – 107
## Research Methodology

**Full Marks – 40**                                           **Time – 2 Hours**

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

Answer **all** questions.

1. Write short notes on **any two** of the following:                    5x2

   i.    Research Design
  ii.    Question Method
 iii.    Hypothesis
 iv.    Deductive Reasoning

2. a) Describe the origin and development of research method.          15

*Or*

   b) Briefly discuss the essential components of a research proposal? How to evaluate a research problem?                                         8+7

3. a) Explain different kinds of sampling method with appropriate examples. Discuss the importance of survey research in LIS.          10+5

*Or*

   b) How is research report organized? Write a note on the problem of plagiarism in research report.                                       9+6

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# RABINDRA BHARATI UNIVERSITY
## 2017
## M.Lib.I.Sc. First Semester Examination
## Course – 108
## ICT (Practical)

**Full Marks – 40**                                                    **Time – 2 Hours**

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

Answer *all* questions.

1. a) Write a PHP program to compute the sum of the prime numbers less than 100.
   Note: There are 25 prime numbers less than 100:
   2,3,5,7,11,13,17,19,23,29,31,37,41.43.47,53,59,61,67,71,73,79,83,89,89,97. The sum of all these numbers is 1060.

   b) Write a PHP program to remove duplicates from a sorted list.
   Input: (1,1,2,2,3,4,5,5)   Output: (1,2,3,4,5)                                            6+4

2.    Solve the following problems using SQL commands:                                       3+3+4

| Student ID | Name | Contact No. | Email | Stream |
|---|---|---|---|---|
| 2001 | Bidasha bera | 324679 | bera@gmail | CSE |
| 1001 | Atish Maity | 567987 | atisg@gmail | IT |
| 2002 | Anup Nandy | 328749 | nandi@gmail | EE |
| 3001 | Bimal Barui | 237849 | barui@gmail | EE |
| 5005 | Ajay Marathy | 528789 | ajay@gmail | CSE |

   a) Write an SQL statement to find the students with all information whose names begin with the letter 'B'.
   b) Write an SQL statement to find the students with all information whose names end with the letter 'Y.'
   c) Write an SQL statement to find the students with all information whose names contain (B) as first character and 'a' a fourth character and the rest any character.

*Or*

3. a) Write an SQL statement to create a simple table of countries with following fields : country id, country name and region id.

   b) Write an SQL statement to create a table of countries with following fields: country-id, country-name and region-id. The region-id will be the unique key.

                                                                                              5+5

4. a) How to define the shape of the border of the bottom-left corner of a page or a table using CSS?

   b) How to set the transition effect to last for 5 seconds using CSS.                       5+5

5. Show how CD catalogue can be formatted by using XML and how it can be viewed in tabular format by using CSS.                                                                                  10

6. Demonstrate the various system parameters in cataloguing module in of Koha.               10