2005

(December)

LIBRARY AND INFORMATION SCIENCE

(Information Retrieval)

Course No. : 303

Full Marks : 75

Time : 3 hours

The questions are of equal value

Answer *any* **five** questions

1. What is an 'Information Retrieval System'? Describe its operational stages.

2. Define 'Thesaurus'. Describe the steps for constructing a monolingual thesaurus.

3. What do you mean by search strategy? Explain with suitable examples the different types of Boolean searches.

4. What are Recall and Precision Ratios? How are they used in measuring the performance of information retrieval systems?

5. Mention the salient features of different types of information retrieval systems which you have studied.

6. Write short notes on any *three* of the following :

   (a) Indexing language

   (b) Syntactical structure

   (c) Associative relationships

   (d) Post-coordinate indexing models

7. What procedures you would follow in searching the Internet? Mention the names of three search engines and their usefulness.

8. Provide brief answers to the following questions :

   (a) Why should we evaluate an information retrieval system?

   (b) How does the feedback help in improving the performance of an IRS?

   (c) Mention the factors affecting the performance of an information retrieval system.

9. Write short notes on any *three* of the following :

(a) Content analysis

(b) Aslib-Cranfield Research Projects

(c) Metadata

(d) Truncation

10. Mention different types of electronic information sources. Describe the methods for searching any two of them.

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2006

(December)

LIBRARY AND INFORMATION SCIENCE

(Information Retrieval)

Course No. : 303

Full Marks : 75

Time : 3 hours

The questions are of equal value

Answer *any* **five** questions

1. Describe the characteristics and structure of an information retrieval system.

2. What is a controlled vocabulary? Describe its characteristics and usefulness in subject indexing.

3. Describe with suitable examples the various types of searches you would adopt for retrieving information from an information retrieval system.

4. What parameters would you consider while evaluating the performance of an information retrieval system?

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

   (a) Content analysis

   (b) Automated indexing systems

   (c) Boolean search

6. Describe the methods of searching information in the Internet.

7. Define Thesaurus. What type of relationships among terms are shown in a thesaurus? Describe with examples.

8. Mention the principles and usefulness of any three search engines for information retrieval.

9. Differentiate between pre-coordinate and post-coordinate indexing models with suitable examples.

10. Write notes on any *three* of the following :

   (a) Feedback

   (b) Semantics

   (c) Performance curve

   (d) Metadata

   (e) Presentation of search results

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2007

(December)

LIBRARY AND INFORMATION SCIENCE

(Information Retrieval)

Course No. : 303

Full Marks : 75

Time : 3 hours

The questions are of equal value

Answer **five** questions, selecting at least **one** from each Unit

UNIT—I

1. Discuss the fundamental principles of Information Retrieval.

2. Information Retrieval System is designed to retrieve pinpoint information from various sources. Elaborate the statement giving purpose and functions of Information Retrieval System.

3. What do you understand by content analysis? Discuss the steps involved in content analysis of documents for effective retrieval.

UNIT—II

4. What do you understand by vocabulary control? Discuss the role of controlled vocabulary in Information Retrieval.

5. Define free-text indexing. Give its advantages and disadvantages in comparison to using controlled vocabulary tools.

6. Differentiate between coordinate and post-coordinate indexing system. Discuss any one of the post-coordinate system giving its principles of indexing with examples.

UNIT—III

7. Define thesaurus and differentiating it from dictionary. Enumerate and discuss steps involved in construction of thesaurus.

8. Describe basic principles of searching with special reference to electronic or online searching.

UNIT—IV

9. Define search strategy. Enumerate and discuss steps involved in formulating search strategy to answer queries of different types.

10. Write short notes on any *three* of the following :

(a) Metadata

(b) Principle of recall and precision

(c) Types of search commands

(d) Fuzzy search

(e) Systematic thesaurus

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2008

(December)

LIBRARY AND INFORMATION SCIENCE

(Information Retrieval)

Course No. : 303

Full Marks : 75

Time : 3 hours

The questions are of equal value

Answer *any* **five** questions

1. Discuss the basic principles of information retrieval.

2. What do you understand by content analysis in the context of information storage and retrieval?

3. What is a Boolean search? Explain with examples.

4. Define Thesaurus and discuss its role in information retrieval.

5. What is search strategy? Mention its steps.

6. What are Role Operators? How do they control the structure and format of index entries in PRECIS?

7. Describe how Recall and Precision Ratios help in evaluating the performance of an indexing system.

8. Discuss the advantages of controlled vocabulary over uncontrolled vocabulary giving suitable examples.

9. What are the advantages and disadvantages of free-text searching?

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

    (a) Metadata

    (b) RT relationship in thesaurus

    (c) Simple and advanced search

    (d) Z39·50

    (e) KWIC and KWOC

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2009

(December)

LIBRARY AND INFORMATION SCIENCE

Course No. : C–301

(Information Retrieval)

Full Marks : 75

Time : 3 hours

The questions are of equal value

Answer **five** questions, selecting at least **one** from each Credit

CREDIT—I

1. Explain with examples how information is different from data and knowledge. Discuss the main functions of an Information Retrieval System (IRS).

2. What is content analysis? Why and how is content analysis useful for effective information retrieval? Suggest few important guidelines for content analysis.

CREDIT—II

3. Why is vocabulary control needed in indexing? How is vocabulary controlled in an information retrieval thesaurus? Explain with examples the following concepts—associative relation, poly-hierarchy, arrowgraph.

4. What is the distinction between pre-coordinate indexing and post-coordinate indexing? Describe with examples the steps to be followed in UNITERM indexing. Mention its advantages and disadvantages.

CREDIT—III

5. What is metada? Describe the seventeen basic elements of the Dublin core.

6. Write the steps of downloading full text articles from subscribed resources and open-access resources. Support your answer with proper resource name and web address.

CREDIT—IV

7. Discuss the basic Information Retrieval (IR) models giving merits and demerits of each of them.

8. Why is evaluation of an IRS necessary? Discuss the major steps involved in evaluation of an IRS as suggested by Lancaster.

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2009

(December)

LIBRARY AND INFORMATION SCIENCE

Course No. : 303

(Information Retrieval)

Full Marks : 75

Time : 3 hours

The questions are of equal value

Answer *any* **five** questions

1. What are the main functions of an Information Retrieval System (IRS)? Discuss the main phases involved in designing an IRS.

2. Discuss the basic principles of Information Retrieval.

3. Differentiate between 'Boolean Logic' and 'Proximity' as methods of search with appropriate illustrations.

4. Discuss the basic Information Retrieval (IR) models giving merits and demerits of each of them.

5. Discuss various types of search giving suitable examples.

6. Explain how modern Information Retrieval systems execute the Five Laws of Library Science. Give your answer with proper illustrations.

7. Compare the advantages and disadvantages of manual indexing and automatic indexing. Support your answer with suitable examples.

8. Explain the following with examples :

   (a) 'Focus' and 'Difference' in PRECIS

   (b) Elementary categories of POPSI

   (c) Sought link, unsought link and false link in chain indexing

9. Define Thesaurus and discuss its role in Information Retrieval.

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

    (a) Role of intermediaries in online searching

    (b) Flow of information from authors to end users

    (c) Metadata

    (d) Role operator

    (e) Qualifier

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