Subject: Information Retrieval Systems   Class: IV-B.Tech (CSE)-I Sem

Faculty: K.Yellaswamy   UNIT WISE QUESTIONS   Date: 19.06.2015

UNIT-I

1. A)Explain the Functional overview of the Information Retrieval System
   B) Clearly discuss the relevance of Information Retrieval Systems in the context of Digital Libraries and Data warehouses.
2. Write about the following capabilities of an Information Retrieval System
   A)Search
   B)Browse
3. A)compare and contrast Digital libraries and Information Retrieval Systems
   B)Write about various standards used in Information Retrieval systems
4. A)Discuss the Objectives of Information retrieval systems
   B)How the information retrieval system is related to database management system.
5. A)Define an Information Retrieval system
   B)What problems does multimedia information retrieval introduce?What solutions would you recommend to resolve the problems.
6. A)What is the impact on precision and recall in the use of stop lists and Stop algorithms
   B)Expalin any three search capabilities available in an information retrieval systems

UNIT-2

1. A)write about indexing process
   B) Explain the concept of information extraction
2. A) Distinguish between cataloging and indexing
   B) Give the objectives of indexing
3. Explain In detail about stemming algorithms
4. Explain in detail the various data structures used in information retrieval systems with suitable examples
5. Explain the following data structures giving suitable examples:
   a. N-gram
   b. PAT

UNIT-3

1. Write a short notes on
   A)Concept Indexing
   B)Natural Language
2. Explain Concept indexing with Concept Vector
3. A)Briefly explain about Automatic Indexing?
   B)Describe various indexing process
4. A) What is automatic indexing? Give the various classes of automatic indexing?
   B) Explain statistical indexing
   C) What are hypertext linkages?

UNIT-IV

1. A)Describe document and term clustering
   B) Write about hierarchy of clusters
2. A)Explain how a thesaurus will be generated
   B) Write about item clustering
3. A)Clearly bring out the steps of the process of clustering
   B) Compare and contrast term and item clustering
4. A) Define clustering. What are the general guidelines for clustering?
   B) Compare and contrast manual clustering and automatic term clustering
5. Elucidate about Item clustering with the help of item relationship matrix
6. Explain Automatic Term clustering using complete Term Relation method

UNIT-V

1. Write about
   a. Selective dissemination of information search
   b. Searching the internet
   c. Information visualization technologies
2. A)Explain the user search techniques with suitable examples
   B) Explain the features related to cognition and perception
3. Write a short notes on the following with examples
   a. Similarity measures
   b. Ranking algorithms
   c. Discuss about selective dissemination information search techniques with examples
4. A)Discuss about relevance feedback techniques

B) How do you expect that relevance feedback using negative judgments will affect the precision and recall of an information system?

5. Explain various Information visualization Techniques
6. A) Why are there three levels of binding in the creation of search?

   B) Describe about the cognitive and perception
7. Explain weighted searches of Boolean systems

UNIT-VI

1. A)Explain the various text search algorithms

   B) Explain how information system evaluation is handled
2. Write about different measures used in system evaluation
3. A)Differentiate hardware versus software text search algorithms

   B) Write about Boyer-Moore text search algorithm
4. A)Discuss about the techniques involved in software text search algorithms

   B) List out the differences between Boyer-Moore text search algorithm and Knuth-Pratt-Morris algorithm
5. Realize the architecture of Fast Data Finder and Explain in detail
6. What is software streaming? Explain a software text search algorithm with example
7. What is text searching? Explain text search with Knuth-Morris-Pratt algorithm
8. Write a short notes
   a. Software text search algorithms
   b. Hardware text search algorithms
   c. Similarities measures(see in UNIT-V)

UNIT-VII

1. A)Write about multimedia searching techniques

   B) Explain the following
   a. Graph retrieval
   b. Video retrieval
   c. Image retrieval
2. Describe Data modeling and explain the following
   a. Multimedia data support in commercial DBMS
   b. The MULTOS(MULTimedia Office Server) Data Model
3. Write about Query Languages

UNIT-VIII

1. A)Write about Digital Libraries

   B) OPAC

   C) Online IR systems