

Code No: **R42059**

**R10**

**Set No. 1**

**IV B.Tech II Semester Regular/Supplementary Examinations, April - 2015**

**INFORMATION RETRIEVAL SYSTEMS**

**(Computer Science and Engineering)**

**Time: 3 hours**

**Max. Marks: 75**

**Answer any FIVE Questions  
All Questions carry equal marks**

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- 1 a) How the Information Retrieval System is related to Database Management System? [6]  
b) Explain various types of Information Retrieval Systems. [9]
- 2 a) What is a Browse capability? Explain about various browse capabilities. [10]  
b) Explain Document database search. [5]
- 3 a) Describe how the PAT Data structure is different from N-gram data structure. [9]  
b) Write short notes on Dictionary look-up stemmers. [6]
- 4 a) Differentiate Full Item indexing, Public File Indexing and Private File Indexing. [7]  
b) What is a Pre-coordination? How it is different from linkages? [8]
- 5 a) What is a cluster? Give the hierarchy of Clusters. [8]  
b) Explain the process of Thesaurus generation. [7]
- 6 a) Discuss the weighted searches of Boolean systems. [8]  
b) What are the processing steps used in automatic relevance feed back to enhance user query? Explain. [7]
- 7 a) Write about information visualization technologies. [8]  
b) Discuss the terms Cognition and Perception of information visualization. [7]
- 8 a) Explain various Software text search algorithms. [9]  
b) What is TREC results and how it can be used in information system evaluation? [6]

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**Set No. 2**

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**INFORMATION RETRIEVAL SYSTEMS**

**(Computer Science and Engineering)**

**Time: 3 hours**

**Max. Marks: 75**

**Answer any FIVE Questions  
All Questions carry equal marks**

**\*\*\*\*\***

- 1 a) Describe the functional overview of Information Retrieval System. [8]  
b) How data warehouses are housed as a source of Information systems? [7]
- 2 a) Explain how the search process takes place when the information is retrieved. [6]  
b) What is concept indexing approach? Explain in detail with a suitable example. [9]
- 3 a) Explain in detail about stemming process. [9]  
b) Write short notes on Inverted File structures. [6]
- 4 a) Explain about classes of Automatic Indexing. [10]  
b) Briefly describe about Statistical Indexing. [5]
- 5 a) Explain various techniques in Automatic Term Clustering. [10]  
b) Describe briefly Item clustering. [5]
- 6 a) Why is relevance feedback required in User Search Techniques? Explain. [9]  
b) Describe briefly why Search Statements and Binding are required. [6]
- 7 a) Explain the main aspects of human visualization process. [8]  
b) Explain various information visualization technologies. [7]
- 8 a) Differentiate between Boyer-Moore Algorithm and Knuth-Pratt algorithm. [6]  
b) Explain briefly Hardware text search systems. [9]

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**Set No. 3**

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**INFORMATION RETRIEVAL SYSTEMS**

**(Computer Science and Engineering)**

**Time: 3 hours**

**Max. Marks: 75**

**Answer any FIVE Questions  
All Questions carry equal marks**

**\*\*\*\*\***

- 1 a) Explain various types of Information Retrieval Systems. [7]  
b) How Digital Libraries can be used as Information base Systems? [8]
- 2 a) Explain the usage of Cataloging and Indexing in Information Retrieval Systems. [9]  
b) Explain the data flow in an information processing system with a neat sketch. [6]
- 3 a) Describe briefly Hypertext data structure. [7]  
b) Discuss the Porter stemming algorithm [8]
- 4 a) Explain the role of automatic indexing in Natural languages. [8]  
b) How Pre-coordination is different from Hypertext linkages? Explain [7]
- 5 a) Distinguish term clustering and item clustering. Explain with suitable examples [8]  
b) What is the need of Thesaurus in a document and how it can be generated? [7]
- 6 a) Briefly describe the concept of Ranking. [6]  
b) Explain the similarity measures that can be used in User search techniques. [9]
- 7 a) Describe the need for information visualization. Under what circumstances is information visualization is not useful? Quote an example. [9]  
b) Describe briefly the terms Cognition and Perception [6]
- 8 a) What are the various Text search algorithms? Explain them in detail. [10]  
b) Explain the concept of push and pull process. [5]

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**Set No. 4**

**IV B.Tech II Semester Regular/Supplementary Examinations, April - 2015**

**INFORMATION RETRIEVAL SYSTEMS**

**(Computer Science and Engineering)**

**Time: 3 hours**

**Max. Marks: 75**

**Answer any FIVE Questions**

**All Questions carry equal marks**

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- 1 a) Describe the functional overview of Information Retrieval System [8]  
b) What is the need of Information retrieval systems and what are its objectives? [7]
- 2 a) Explain the Browse capabilities of Vocabulary, Ranking, Canned query and Multimedia. [10]  
b) Describe the automatic indexing. [5]
- 3 a) Describe Signature file structure. [6]  
b) Explain various Stemming algorithms. [9]
- 4 a) What is concept indexing approach? Explain in detail with a suitable example. [8]  
b) Write about the Hypertext linkages. [7]
- 5 a) Explain the process involved in Term clustering. [9]  
b) Write short notes on Thesaurus. [6]
- 6 a) Explain Selective dissemination of information search [8]  
b) Describe briefly Online IR systems and OPACs. [7]
- 7 a) Describe the need for information visualization. [7]  
b) Explain the main aspects of human visualization process. [8]
- 8 a) Explain the Boyer-Moore text search algorithm with an example. [8]  
b) How the information system is evaluated and what are the measures used in it? [7]