

Code No: C4010, C2508 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech I - Semester Examinations March/April-2011 INFORMATION RETRIEVAL SYSTEMS (COMMON TO INFORMATION TECHNOLOGY, SOFTWARE ENGINEERING) Time: 3hours Max.Marks:60

Answer any five questions All questions carry equal marks

1. a) Explain the concepts "Precision" and "Recall".b) Write any two objectives of Information Retrieval Systems.c) Explain briefly functional overview of Information Retrieval Systems	. [12]
2. Explain the following IR System Capabilitiesa) Search capabilitiesb) Miscellaneous Capabilities	[12]
3. a) Discuss about Precoordination and Linkages in the Indexing Proces	
b) How is Information Extraction different from the Indexing Process?	
c) Explain about "Document Summarization Process"	[12]
4. a) Explain in detail about "Inverted File Structure".	
b) Explain in detail about PAT file structure.	
c) Write short notes on XML data structures.	[12]
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5) Write a short notes on the following	
a) Bayesian Model	
b) Concept Indexing	
c) Simple Term Frequency Algorithm	[12]
6) a) Explain in detail about Manual Clustering Process.	
b) Consider the following Term – Term matrix	
T 1 T2 T3 T4 T5	
T1 1 1 1 1	
T2 1 0 1 0	
T3 1 0 1 0	
T4 1 1 1 0	
T5 1 0 0 0	[10]
Determine the clusters using Clique and Single Link Techniques.	[12]
7) a) What are the six key characteristics of intelligent agents used searching of the Internet and the hypertext.b) Explain the following Information Visualization Technologies	in the
i) Perspective Wall	[10]
ii) Cone Tree	[12]

8) Explain in detail software text search algorithms with examples. [12]

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