

Code No: D7810, D0506, D5806**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****M.TECH II - SEMESTER EXAMINATIONS, APRIL/MAY 2012****INFORMATION RETRIEVAL SYSTEMS****(COMMON TO COMPUTER NETWORKS & INFORMATION SECURITY, COMPUTER SCIENCE, COMPUTER SCIENCE & ENGINEERING)****Time: 3hours****Max. Marks: 60****Answer any five questions****All questions carry equal marks**

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1. a) What is the impact on precision and recall in the use of Stop Lists and Stop Algorithms?
b) What is the difference between the concept of a “Digital Library” and an Information Retrieval System?
- 2.a) What are the similarities and differences between use of fuzzy searches and term masking? What are the potentials for each to introduce errors?
b) What problems does multimedia information retrieval introduce? What solutions would you recommend to resolve the problems?
- 3.a) What is indexing? Explain its objectives.
b) Under what circumstances is manual indexing not required to ensure finding information? Postulate an example where this is true.
4. Explain the following data structures by giving suitable examples:
a) N-gram
b) PAT
c) Hypertext.
5. Describe how use of Natural Language Processing will assist in the disambiguation process. What is the impact on index structure and the user search interface to take advantage of the results of disambiguation?
- 6.a) Clearly bring out the steps of the process of clustering.
b) Compare and contrast term clustering and item clustering.
- 7.a) What are some potential ambiguities in use of relevance feedback on hypertext documents?
b) Describe the need for information visualization. Under what circumstances is information visualization not useful?
- 8.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.
