

**Code No: C4010, C2508****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****M.TECH I - SEMESTER EXAMINATIONS APRIL/MAY-2012****INFORMATION RETRIEVAL SYSTEMS****(COMMON TO INFORMATION TECHNOLOGY, SOFTWARE ENGINEERING)****Time: 3hours****Max.Marks:60**

**Answer any five questions**  
**All questions carry equal marks**

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- 1.a) Explain about vocabulary domains.  
b) Define the terms: precision and recall.
- 2.a) What is the purpose of WAIS standard?  
b) What is the purpose of Thesaurus? Explain what it contains.
- 3.a) Explain about public file indexer.  
b) What is a weighted indexing process?  
c) What are the problems with Luhn's concept of 'resolving power'?
4. What are the approaches used to account for different document lengths while determining the value of term frequency?
- 5.a) What are the data files used to control and limit the stemming process by k-stem system.  
b) What are the conclusions given by Frakes on stemming?
- 6.a) Why does the numerator remain basically the same in all of the similarity measures? Discuss other possible approaches and their impact on the formulas?  
b) Explain the use of neural networks for the learning function.
- 7.a) Explain Knuth – Pratt – Morris algorithm.  
b) Explain shift characters table.
- 8.a) What are different models for the retrieval of multimedia information.  
b) Give a brief note on OPACs.

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