Code: R7411205

B.Tech IV Year I Semester (R07) Supplementary Examinations, May 2013

INFORMATION RETRIEVAL SYSTEMS

(Information Technology)

Time: 3 hours Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Define information retrieval system's write about the 2 major measures associated with information systems.
 - (b) Explain the text normalization process.
- 2 (a) What is proximity? Explain with an example.
 - (b) Explain term masking.
 - (c) Explain concept thesaurus expansion.
- 3 (a) How does the process of information extraction differ from the process of document indexing?
 - (b) Write the objectives of indexing.
- 4 (a) Explain successor stemmers in detail.
 - (b) Explain PAT data structure with an example.
- 5 (a) Explain index phase generation.
 - (b) Write about simple term frequency algorithm.
- 6 Given the following set of items:

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	Term 7	Term 8
Item 1	3	0	2	2	0	0	4	3
Item 2	0	0	4	3	2	0	0	2
Item 3	2	2	0	2	2	1	0	0
Item 4	0	1	0	2	2	0	1	0
Item 5	0	0	0	0	0	2	0	0
Item 6	2	1	3	4	2	2	0	2

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- (a) Starting with item 1 and item 2 in class 1 and with item 3 and item 4 in class 2, determine which items should be assigned to the clusters.
- (b) Use the one-pass technique to determine cluster assignment.
- (c) What are the differences in the results from the 2 processes?
- 7 (a) Explain relevance feedback.
 - (b) Explain hidden Markov models techniques.
- 8 (a) Explain hardware text search systems.
 - (b) Write about the measures used in information evaluations.
