

Code No: **R42059**

R10

Set No. 1

IV B.Tech II Semester Supplementary Examinations, April - 2018

INFORMATION RETRIEVAL SYSTEMS

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions

All Questions carry equal marks

- 1 a) Define Information Retrieval System. Explain the objectives of the Information Retrieval System. [8]
b) What is the difference between the concept of a “Digital Library” and an Information Retrieval System? What new areas of information retrieval research may be important to support a Digital Library? [7]
- 2 a) Trade off the use of precoordination versus postcoordination. [8]
b) Explain about Multimedia Indexing. [7]
- 3 a) Explain the following data structures giving suitable examples:
(i) N-gram [8]
(ii) PAT [8]
b) Explain about Successor stemmer with example. [7]
- 4 a) What is the problem with weighting schemes? [8]
b) Explain Bayesian model with an example. [7]
- 5 a) Differentiate between Manual Clustering and Automatic Term Clustering. Explain with suitable examples. [8]
b) Explain the process of Thesaurus generation. [7]
- 6 a) What is a similarity measure? Why Normalization factor is required for similarity measures? Briefly describe the threshold process. [8]
b) Describe briefly why Search Statements and Binding are required. [7]
- 7 a) Explain the main aspects of human visualization process. [8]
b) What is cognition and what is perception? What is Preattentive Detection Mechanism? [7]
- 8 a) What algorithmic basis is used for the GESCAN and Fast Data Finder hardware text search machines? [8]
b) List out the differences between Boyer-Moore text search algorithm and Knuth-Pratt-Morris algorithm. [7]