

Code No: **R42059**

R10

Set No. 1

IV B.Tech II Semester Supplementary Examinations, July/August - 2017

INFORMATION RETRIEVAL SYSTEMS

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions

All Questions carry equal marks

- 1 a) Explain about Text Normalization Process in Information Retrieval Systems [8]
b) What you mean by index process in Information System. Explain two classes of Index files. [7]
- 2 a) Why should researchers in information retrieval care about standards? [8]
b) Illustrate the relationship between vocabulary browse and thesauri/concept classes [7]
- 3 a) Describe the similarities and differences between term stemming algorithms and n-grams. [8]
b) Describe how a bigram data structure would be used to search for the search term "computer science". What are the possible sources of errors that could cause non-relevant items to be retrieved? [7]
- 4 a) Explain about vectorized information systems. [8]
b) What is a Bayesian network? Explain two level Bayesian network. [7]
- 5 a) Explain about Item Clustering algorithm. [8]
b) Discuss about Hierarchical clustering in Information Retrieval focuses on the area of hierarchical agglomerative clustering methods. [7]
- 6 a) Write a short notes on the following
i) Bayesian Model
ii) Simple Term Frequency Algorithm [8]
b) What is relevance feedback? With an example, describe in detail about relevance feedback and its impact and effect of relevance feedback. [7]
- 7 a) Write short notes on the following with examples
i) Similarity measures
ii) Ranking algorithms [8]
b) Explain Information Visualization Technologies. [7]
- 8 a) What is Software text search algorithm? With an example, briefly describe Knuth-Pratt-Morris algorithm [8]
b) Explain briefly Hardware text search systems. [7]