

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**

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