R15

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Code No: 127DX B. Tech IV Year I Semester Examinations, November/December - 2018 INFORMATION RETRIEVAL SYSTEMS (Common to CSE, IT) Max. Marks: 75 Time: 3 Hours Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. PART- A (25 Marks) [2] Write a short note on inference networks. [3] 1.a) Explain briefly Boolean Indexing retrieval strategy. [2] b) What is result set clustering. [3] c) Briefly explain N-gram retrieval utility. Write a short note on Query translation used in cross language information retrieval. d) [2] e) [3] What is pivot language? [2] What is k-scan algorithm [3] g) Write a short note on duplicate elimination. [2] h) Write a short notes on Boolean Retrieval. [3] i) Write a brief note on Page Rank algorithm. i(50 Marks) Define vector space model and calculate the Similarity coefficients with an example.[10] 2. Explain in detail about Non Binary independence model. Explain the procedure to calculate weighting factor for a term in a document. [5+5]3.a) b) Explain how Relevance feed back is implemented using vector space model. [10] Write a short note on Damashek clustering method. [5+5]5.a) Explain in detail how thesaurus is constructed manually. b) Explain in detail about R-Distance measure. [5+5]Write a short note on semantic network retrieval utility. 6.a) b) Explain in detail about Part-of-speech (POS) taggers and word sense taggers. [5+5]7.a) Write a short on parsing of simple phrases.

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***	8.	What is inverted index? Explain in detail about inverted index compression with an example.						
	9.a) b)	Explain briefl Explain in det	y about query pr ail about signatu	OR rocessing ire files.	88		(5+5)	<u> </u>
	10.a) b)	Explain how information retrieval can be considered as a relational application.  Explain in detail about multidimensional data model.  [5+5]						
	11.a) b)	Write a short of Explain with a	note on evaluation an eat diagram a	OR on of web search bout distributed inooOoo	engines. nformation retrie	val.	[5+5]	
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