Code No: 127DX

R15

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, May/June - 2019 INFORMATION RETRIEVAL SYSTEMS

(Common to CSE, IT)

	: 3 Hours Max. Marks	s: 75
Note:	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Pa Part B consists of 5 Units. Answer any one full question from each Each question carries 10 marks and may have a, b, c as sub questions.	
	PART- A	5 Marks
1.a) b)	What is a non-binary independence model? What is a term frequency and normalized term frequency? Write down their equals	[2]
c) d) e) f) g) h) i)	Give an example that improves the effectiveness of Information retrieval system. What is Ward's method in clustering? What are semantic networks? What is comparable corpus and parallel corpus? What is meant by query processing? What is a signature and how to construct signature file. What is high-precision search? What is structured data and what is the use of XML?	
2.	Explain about vector space model in detail.) Marks [10]
3.a) b)	OR Explain about retrieval strategies and their categories. What is smoothing in language model? Explain.	[5+5]
4.a) b)	Explain how Thesaurus are used to expand a query? Explain about the use of manually generated Thesauri. OR	[5+5]
5.	Explain about: a) Resultset clustering b) Hierarchical Agglomerative clustering.	[5+5]
6.a) b)	What are the four core questions to cross the language barrier? Explain. Explain about document translations and query translations. OR	[4+6]
7.	Explain the following in semantic networks a) R-distance b) K-distance	[5+5]
8.	Discuss about Duplicate document detection. OR	[10]
9.	Explain about fixed length and variable index compression.	[10]

10. What is distributed document retrieval? Explain the theoretical model of distributed retrieval. [10]

OR

- 11.a) Explain briefly about advantages and disadvantages of combining systems of DBMS and Information retrieval.
 - b) Explain about Relevance feedback in relational model.

[5+5]

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