

Code No: 117DX

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, March - 2017 INFORMATION RETRIEVAL SYSTEMS (Common to CSE, IT)

Time: 3 Hours Max. Marks: 75

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)
1.a)	What is a non-binary independence model?	[2]
b)	What is a term frequency and normalized term frequency? Write down their	
		[3]
c)	Give an example that improves the effectiveness of Information retrieval syst	tem. [2]
d)	What is Ward's method in clustering? Give example.	[3]
e)	What are semantic networks?	[2]
f)	What is comparable corpus and parallel corpus?	[3]
g)	What is meant by query processing?	[2]
h)	What is a signature and how to construct signature file.	[3]
i)	What is high-precision search?	[2]
j)	What is structured data and what is the use of XML?	[3]
	Part-B	
		(50 Marks)
2.	Explain about vector space model in detail. OR	[10]
3.a)	Explain about retrieval strategies and their categories.	
b)	What is smoothing in language model? Explain.	[5+5]
4		
4.a)	Explain how Thesaurus are used to expand a query.	
b)	Explain about the use of manually generated Thesauri.	[5+5]
	OR	
5.	Explain about:	
	a) Resultset clustering b) Hierarchical Agglomerative clustering	
	c) Rocchio clustering	[3+4+3]
6.a)	What are the four core questions to cross the language barrier?	
		[4+6]
b)	Explain about document translations and query translations.	[4+6]
7	OR	
7.	Explain the following in semantic networks	[5.5]
	a) R-distance b) K-distance	[5+5]
8.	Discuss about Duplicate document detection.	[10]
	OR	

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- 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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