R13

Max. Marks: 75

Cöde No: 117DX

Time: 3 Hours

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JAWAHARLAL NEHRU TECHNOLOGICAE UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, March - 2017 INFORMATION RETRIEVAL SYSTEMS

(Common to CSE, IT)

	: This question paper contains two parts A and B	iiii iiii	iiii iiii
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	****	2444, <u>444</u>
	d kë kë kë	* * * * * * * * * * * * * * * * * * *	(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 equations.			
$\begin{bmatrix} 3 \end{bmatrix}$			
c)	Give an example that improves the effectiveness of Inform	nation retrieval sy	
g)	What is Ward's method in clustering? Give example.	****	[3]
e); : f)	What are semantic networks?	y y we	[2]
	What is meant by query processing?		[3] [2]
g) h)	What is a signature and how to construct signature file.		[3]
i)	What is high-precision search?		[2]
	What is structured data and what is the use of XML?	X 9 4 3	;···, ;··[3]
		**** * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
Part-B			
			(50 Marks)
2.	Explain about vector space model in detail.		[10]
OR			
	Explain about retrieval strategies and their categories.	**** *** * * * * * * * * *	****
;p,) ,	What is smoothing in language model? Explain.	* × * * × 6 ***	: :: ::[5+5]
4.5			
4.a)	Explain how Thesaurus are used to expand a query.		F. C. 7.
b)	Explain about the use of manually generated Thesauri.		[5+5]
5 :***::	OR Explain about:	***	**** ***
J	a) Resultset clustering b) Hierarchical Agglomerati	ve clustering	****
	c) Rocchio clustering	ve clustering	[3+4+3]
	o) Rosemo clustering		[51713]
6.a) What are the four core questions to cross the language barrier?			
b)	Explain about document translations and query translation		[4+6]
****	OR W	* * * * * * * * * * * * * * * * * * *	
7.	Explain the following in semantic networks	8 ° 846	S & "& "ABO"
	a) R-distance b) K-distance		[5+5]
8.	Discuss about Duplicate document detection.		[10]
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