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(25 Manles)

[5+5]

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, November/December - 2016 INFORMATION RETRIEVAL SYSTEMS (Information Technology)

Time: 3 Hours

(Information Technology)

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 Retrieval strategy?	[2]
b) What is the use of probabilistic retrieval strategy?	[3]
c) What are retrieval utilities? List them.	[2]
What is Regression analysis?	[3]
What is stemming? b) What is CLIR and what are the resources needed to implement CLIR?	[2]
t) What is CLIR and what are the resources needed to implement CLIR?	[3]
g) What is an Index and posting list?	[2]
h) What is the method to improve both efficiency and effectiveness of	an Information
retrieval?	[3]
i) What is a Non-First Normal form?	[2]
j) Draw the diagram that integrates structured data and text.	[3]

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	Part-B		
2	What are language models? Explain with example. OR	(50	Marks) [10]
3.	Explain briefly about a) Simple term weights b) Non-binary independence model		[5+5]
(b)	Explain relevance feedback in vector space model. Explain briefly how clustering is implemented without a precomputed matrix?		[5+5]
5.a) b)	Explain about N-grams. Explain how document clustering is used to generate Thesaurus?		[5+5]
6.	Discuss about distance measures in semantic networks.		[10]
7.	Explain about simple phrases and complex phrases of parsing.		[10]
8.	Explain about building and compressing inverted index. OR Explain about		[10]
	a) The construction of signature files b) Scanning to remove false positives		[5+5]
	Discuss about semi-structured search using a relational schema.	;	[10]
11/20	Explain with diagram about Distributed document retrieval.		

Write short notes on web search.