Code No: 117DX

R13

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

	(Information Technology)	
Time		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	
1.6)	What is a Datainval strate of 9	(25 Marks
1.a) b)	What is a Retrieval strategy? What is the use of probabilistic retrieval strategy?	[2]
c)	What is the use of probabilistic retrieval strategy? What are retrieval utilities? List them.	[3]
At .	What is Regression analysis?	[2]
(a)	What is stemming?	[3]
(i)	What is CLIR and what are the resources needed to implement CLIR?	[2]
g)	What is an Index and posting list?	[3]
h)	What is the method to improve both efficiency and effectiveness of	[2] an Informatio
***	retrieval?	[3]
i)	What is a Non-First Normal form?	[2]
j)	Draw the diagram that integrates structured data and text.	[3]
	g	[5]
	Part-B	
2/	What are language modeled foundational	(50 Marks
K.	What are language models? Explain with example.	[10]
3.	Explain briefly about	
J.	a) Simple term weights b) Non-binary independence model	FE LET
_	by Non-omary independence model	[5+5]
4a)	Explain relevance feedback in vector space model.	
b)	Explain briefly how clustering is implemented without a precomputed matri	ix? [5+5]
	GR)	[]
5.a)	Explain about N-grams.	
b)	Explain how document clustering is used to generate Thesaurus?	[5+5]
5.	Discuss about distance measures in semantic networks.	[10]
	OR	
<b>7</b> .	Explain about simple phrases and complex phrases of parsing.	[10]
3.	Evaluin about building and compress's discostation	£1.03
). 	Explain about building and compressing inverted index.	[10]
V :	Explain about OR Table	
	•	na FE 1 5 1
	a) The construction of signature files b) Scanning to remove false positive	es [5+5]
	Discuss about semi-structured search using a relational schema.	[10]
*	OR	[10]
- الله ا	Explain with diagram about Distributed document retrieval.	
b)	Write short notes on web search.	[5+5]
		[2,2]