[10]

Code No: 117DX

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, November/December - 2016 INFORMATION RETRIEVAL SYSTEMS

(Computer Science and Engineering)

		. Marks: 75
N	Part A is compulsory which carries 25 marks. Answer all question Part B consists of 5 Units. Answer any one full question from each question carries 10 marks and may have a, b, c as sub questions.	
	PART- A	
		(25 Marks)
1.a)	Explain Precision and Recall.	[2]
b)	Define Incorporating Term Frequency with example.	[3]
c)	What is computing New Query Weights?	[2]
d)	Explain the following terms with examples.	
,	i) Ward's Method ii) Rocchio Clustering.	[3]
e)	What is use of POS and word sense tagging?	[2]
f)	Explain about Pharse Translation.	[3]
g)	Define Signature files.	[2]
h)	Explain compression based on posting list size.	[3]
i)	Explain about Query Log Analysis.	[2]
j)	Explain Proximity searches.	[3]
	PART-B	
		(50 Marks)
2.	Explain key concerns with Probabilistic Retrieval Strategies.	[10]
	OR	r - J
3.	Find the $P_{avg}(t)$ and $R_{t,d}$ for the following query using Language Model meth Query: "gold silver truck"	od
	D1: "shipment of gold damaged in a fire"	
	D2: "delivery of silver arrived in a silver truck"	
	D3: "shipment of gold arrived in a truck"	[10]
4.	Explain about the concept of N-Gram in detail.	[10]
_	OR	
5.	Consider the following example and find the Term co-occurrence D1: "a dog will bark at a cat in a tree"	

D2: "ants eat the bark of a tree"

6.	Explain about Incorporating Distance and Complex Phrases.	[10]
	OR	
7.	What is Parsing? Explain Single terms and Simple Phrases?	[10]
8.	How do you perform Duplicate Document Detection in detail?	[10]
	OR	
9.	Explain in detail the partial result set retrieval and vector space simplifications.	[10]
10.	How to compute the relevance using Unchanged SQL? Explain with example. OR	[10]
	V	c
11.	What is a Distributed information retrieval? Explain about distributed in	nformation
	retrieval system model?	[10]

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