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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, January - 2018 INFORMATION RETRIEVAL SYSTEMS

Time: 3 Hours

Code No: 815BJ

Max. Marks: 60

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Note: This question paper contains two parts A and B. Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A

	$5 \times 4 N$	larks = 20
1.a)	How to obtain the character sequence in a document? Explain.	[4]
b)	How to represent query as vectors? Explain	[4]
c)	Write down the equations for chain rule, partition rule and Bayes' rule	[/]
() d)	What are multiplace SVMe2 Explain	[1]
u)	what are municiass 5 vivis? Explain.	[4]
e)	What are the features that web crawlers must and should provide? Explain.	[4]
PART - B		
	$5 \times 8 N$	Iarks = 40
2.	Where wildcard queries are used? Explain about general wildcard queries are indexes for wildcard queries.	nd k-gram [8]
3.	What do you know about distributed indexing? Explain with an example of indexing with MapReduce.	distributed [8]
4.	Explain about a) Static quality scores and ordering b) Cluster pruning.	[4+4]
OR		
5.a)	Describe the process of evaluating information retrieval system.	
b)	Discuss about Rocchio algorithm for relevance feedback.	[4+4]
6.	Write short notes on:	
	a) Finite automata and language models b) Types of language models.	[4+4]
OR		
7.	Discuss the following text classification models	
	a) Multinomial unigram language model b) Bernoulli model	[4+4]
8.	Define hierarchical clustering. Explain about hierarchical agglomerative clusterin OR	g.[8]
9.	Write down the matrix diagonalization theorem. Explain about latent semantic in	dexing.[8]
10.	Discuss the web characteristics in detail.	[8]
11.	Explain about Markov chains process in detail	[8]
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