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Code No: 815BJ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, August - 2017 **INFORMATION RETRIEVAL SYSTEMS**

Time: 3 Hours

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 × 4 Marks = 20
1.a)	What is IR and provide an example for IR problem?	[4]
b)	Describe the procedure for 'pseudo relevance feedback'.	[4]
c)	Provide some basic XML concepts.	[4]
d)	What is "Low rank approximations" in matrix decompositions?	[4]
e)	What is the role of Web graphs in link analysis?	[4]

PART - B

 5×8 Marks = 40

2.	How do we process a query using an inverted index and the basic Boolean model? Explain with example.	retrieval [8]	
3.	Explain the following spelling correction strategies in brief. a) K-gram indexes b) context sensitive.	[4+4]	
4.	Write short notes on the following "parametric and zone indexes".a) Weighted zone scoring b) The optimal weighting.	[4+4]	
OR			
5.	Describe "Rocchio algorithm for relevance feedback".	[8]	
6.a)	Compare text-centric and data-centric XML retrieval.		
b)	What is "The 1/0 loss case" probability ranking principle?	[4+4]	
7.	Describe about "Query likelihood models in language models" for Information ret	trieval. [8]	
8.	Write about the following models of extended support vector machines. a) Soft margin classification b) Multi class SVMs. OR	[4+4]	
9.	Describe the following Hierarchical clustering methods.		
	a) Centroid clustering b) Divisive Clustering.	[4+4]	
10.	Explain the role of "Index size and clustering" in approximation of well comprehensiveness.	b search [8]	
UK 11 What is Web Crowling? Drew and explain the basis Web Crowler erebitecture [9]			
11.	what is web Crawling? Draw and explain the basic web Crawler architecture.		

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Max. Marks: 60