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Code No: 815BJ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, December - 2019 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

Max. Marks: 60

1.a)	What do you understand by the terms "grepping" and "incidence matrix"? Explain	n.[4]
b)	Explain about weighted zone scoring.	[4]
c)	What do you understand by text-centric and data-centric XML retrieval? Explain.	[4]
d)	What do you understand about support vector machines? Explain.	[4]
e)	What is a web graph? Explain.	[4]

PART - B

 5×8 Marks = 40

2.	xplain the process of querying using an inverted index and the basic boolean			
	model.	[8]		
3.	What do you understand by tokenization? Explain in detail.	[8]		
4.	Explain about term frequency and weighting in detail.	[8]		
OR				
5.	Explain the following components of an information retrieval system			
	a) Tiered indexes b) Query-term proximity.	[4+4]		
6.	Discuss the vector space model for XML retrieval.	[8]		
OR				
7.	Explain about probability ranking principle.	[8]		
8.	Explain the hierarchical clustering in information retrieval.	[8]		
OR				
9.	Discuss the k-means flat clustering algorithm.	[8]		
10.	Discuss about crawler architecture in detail.	[8]		
OR				
11.	Write short notes on:			
	a) Spammers			
	b) Informational, navigational and transactional queries.	[4+4]		

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