PART-A What is a non-binary independence model?

1	what is a non officing independence model.	L#J
b)	What is a term frequency and normalized term frequency? Write down their equa	tions.
		[3]
c)	Give an example that improves the effectiveness of Information retrieval system.	[2]
d)	What is Ward's method in clustering?	[3]
e)	What are semantic networks?	[2]
f)	What is comparable corpus and parallel corpus?	[3]
g)	What is meant by query processing?	[2]
h)	What is a signature and how to construct signature file.	[3]
i)	What is high-precision search?	[2]
j)	What is structured data and what is the use of XML?	[3]
	PART-B	
	(50	Marks)
2.	Explain about vector space model in detail.	[10]
	OR	
3.a)	Explain about retrieval strategies and their categories.	
b)	What is smoothing in language model? Explain.	[5+5]
4.a)	Explain how Thesaurus are used to expand a query?	
b)	Explain about the use of manually generated Thesauri.	[5+5]
	OR	
5.	Explain about:	
	a) Resultset clustering b) Hierarchical Agglomerative clustering.	[5+5]
6.a)	What are the four core questions to cross the language barrier? Explain.	
b)	Explain about document translations and query translations.	[4+6]
	OR	
7.	Explain the following in semantic networks	
	a) R-distance b) K-distance	[5+5]
8.	Discuss about Duplicate document detection.	[10]
	OR	
9.	Explain about fixed length and variable index compression.	[10]

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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.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, May/June - 2019 INFORMATION RETRIEVAL SYSTEMS (Common to CSE, IT)

Time: 3 Hours

1.a)

Code No: 127DX

R15

[2]

(25 Marks)

Max. Marks: 75

10. What is distributed document retrieval? Explain the theoretical model of distributed retrieval. [10]

OR

- 11.a) Explain briefly about advantages and disadvantages of combining systems of DBMS and Information retrieval.
 - b) Explain about Relevance feedback in relational model. [5+5]

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