R13

Code No: 117DX

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

## B. Tech IV Year I Semester Examinations, April/May - 2018 INFORMATION RETRIEVAL SYSTEMS

(Common to CSE, IT)

Time	3 Hours	Max. Marl	ks: 75
Note:	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all question consists of 5 Units. Answer any one full question from each ur carries 10 marks and may have a, b, c as sub questions.	s in Part A nit. Each c	. Part B question
8 R	SR SR PART-A		(25 Marks)
1.a) b) c) d) e)	Write the assumptions of vector space model.  Define recall and precision.  Define dendogram.  Write the challenges of relevance feedback.  Define index pruning.		[2] [3] [2] [3] [2]
S R f) g) h) i) j)	What is the inverted file? How is it useful in information retrieval?  Define fusion.  What is semantic network? Give an example.  Define link analysis.  What is high precision search? Explain it briefly.	8 K	[3] [2] [3] [2] [3]
2.a) b)	What is simple term weight? Explain in detail. Explain the procedure to rank the components.  OR	8.	(50 Marks)
3.a) b)	Describe Poisson model.  Give a detailed description on language model.		[5+5]
4.a) b)	Write about the importance of relevance feed back in probabilistic Explain various method to construct thesauri automatically.  OR	model.	[5+5]
5.	Explain the following.  a) Rocchio Clustering.  b) Result Set Clustering.		[5+5]
6.a) b)	Discuss various distance measures in semantic networks.  Explain, how rank is done based on constrained spread activation.  OR	88	[5+5.]
7.a) b)	Explain different approaches for choosing translation in language to Give a note on language model for cross language information retr	barrier. rieval.	[5+5]
8R	8R 8R 8R 8R	85	

8.a) b)  9.a) b)  10.a) b)  11.a) b)	What is I-match Write a note on What is index t Explain the sea	re file? Explain, in deta variable length in able? Explain how rehing methods in	w xml data is stor n xml file using ro OR	n. red in index table elational schema.	?	[5+5] [5+5] [5+5]
8R	88	88	88	88	88	8 R
8 2	88	8 R	8R	8R	.8R	
87	88	8 R	8R.	8R,		8 FX
8R	8	88	8.	87	. 8R	8.7
8R	8R	88	3R	?F)		