Total No. of Questions : 6]	SEAT No.:		
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## BE/Insem./APR-259

## **B.E.** (Information Technology)

## INFORMATION STORAGE AND RETRIEVAL

(2015 Course) (Semester -II) (Elective - III) (414464B)

Time: 1 Hour] [Max. Marks:30

Instructions to the candidates:

- 1) Solve Q.1 or Q.2, Q.3 Or Q.4, Q.5 or Q.6.
- 2) Figures to right indicate full marks.
- Q1) a) What is a document representative? Explain with a suitable example. [5]
  - b) Draw and explain IR system block diagram.

[5]

OR

- Q2) a) Explain steps in conflation algorithm using a suitable example. [5]
  - b) Write a short note on XML data structures used in IR systems. [5]
- Q3) a) Find the similarity of the following query with documents D1, D2, D3 using vector model.[5]

Query	Keywords	
Q	mouse, dog	
Document	Text	Terms
D1	mouse mouse bee	mouse bee
D2	dog bee dog hog	mouse bee dog hog
	hog dog mouse dog	
D3	cat gnu dog eel fox	Cat dog eel fox gnu

b) Show how single link clusters may be derived from the dissimilarity coefficient by thresholding it. [5]

OR

<b>Q4</b> )	a)	Exp	plain Latent Semantic Indexing with a suitable example.	[5]
	b)	Cor	npare Neural network-based retrieval and Fuzzy set retrieval meth	ods. [ <b>5</b> ]
<b>Q</b> 5)	a)	Def	ine and explain following terms - Precision & Recall.	[5]
	b)	Define and explain following terms -		[5]
		i)	MRR	
		ii)	NDCG	
			OR	
<b>Q6</b> )	<b>(6)</b> a) Define ar		ine and explain following concepts.	[5]
		i)	Cross fold validation.	
		ii)	User oriented measures for performance evaluation.	
	b)	Define and explain following concepts related to visualization.		[5]
		i)	User relevance judgement.	
		ii)	Interface support for search process.	
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