Total No. of Questions: 8]		of Questions : 8] SEAT No. :
PB2	<b>250</b>	1 [Total No. of Pages : 2
		B.E. (A.I. & D.S.)
INFORMATION RETRIEVAL		
(2019 Pattern) (Semester - VII) (Elective - IV) (417524 B)		
		Hours] [Max. Marks: 70
Instructions to the candidates:  1) Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.		
		Neat diagrams must be drawn wherever necessary. Assume suitable data if necessary
•	3) 1	Assume sumble and if necessary
Q1)	a)	Define and explain Probabilistic Retrieval. [4]
	b)	Define the following with respect to Information Retrieval: [6]
		i) Vector Space Model
		ii) Term Frequency
		iii) Inverse Document Frequency
	c)	What is the binary independent retrieval model? [6]
		OR
Q2)	a)	List the problems associated with n-gram. Explain how these problems
	<b>1</b> . \	are handled. [6]
	b)	List and explain the challenges in Natural language processing. [4]
	c)	Explain with suitable example different levels of NLP. [6]
02)	\	
<i>Q3</i> )	a)	What is the difference between clustering and classification? Can clustering be used for classification purposes? [6]
	b)	What are different types of clustering algorithm? Explain any one of
		them. [6]
	c)	Explain in detail about naïve Bayes algorithm and its application in text
(		classification. [6]
		OR OR
<i>Q4</i> )	a)	Write partitioning algorithm for clustering. [10]
	b)	Solve Agglomerative hierarchical clustering for single link with example.[8]
		P.T.O.

