Total No. of Questi	ions : 8	8]
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SEAT No.	:			
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B.E. (Artificial Intelligence & Data Science) INFORMATION RETRIEVAL

	(20	019 Pattern) (Semester - VII) (417524 B) (Elective - IV)	
		Hours] [Max. Marks : 2	70
	1)	Answer Q v or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q8.	
	2)	Near diagrams must be drawn wherever necessary.	
	3)	Assume suitable data if necessary.	
Q1)	a)	Define and explain Probabilistic Retrieval.	6]
	b)	What is the probability ranking principle for interactive information retrieval?	on 6]
	c) (What is the binary independent retrieval model? [6	6]
		OR A	
Q2)	a)	What is language modeling approach to information retrieval?	6]
	b)	State and explain different types of Bayesian networks?	6]
	c)	Explain language models?	6]
()2)	0)	What is the difference between clustering and classification? Ca	֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓
Q3)	a)		6]
	b)	What are different types of clustering algorithm? Explain any one of then	n.
			5]
	c)	What are the applications of naive Bayes classifier?	6]
	-	OR OR	
Q4)	a)	What is K nearest neighbor classifier with an illustration in information retrieval?	on 6]
	b)		5]
	c)	What is the hypothesis used in the vector space model for classification	_
	,	O-7	6]

Q5) a)	Factors that influence a webpage's PageRank score.	[6]
b)	Explain search engine ranking function?	[5]
c)	What is parallelism in query processing?	[6]
	OR	
Q6) a)	Define Python library is used for web crawling?	[6]
b)	What are the Main challenges posed by Web?	[5]
c)	Explain the components of focused web crawlers?	[6]
Q7) a)	Explain multimedia IR models?	[9]
b)	What are the four phases of recommeder system?	[9]
•	OR O	
Q8) a)	Multimedia Information Retrieval	[9]
b)	What is the difference between information retrieval and recommendation	
	system?	[9]
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