Total No. of Questions: 8]	200	SEAT No. :
PA-945	2,2	[Total No. of Pages : 2
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B. E. (Information Technology) INFORMATION AND STORAGE RETRIEVAL (2019 Pattern) (Semester - VII) (414441)

Time: 2½ Hours] [Max. Marks: 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.
- Q1) a) In information retrieval, if q is the information request and a set of relevant documents for query q is Rq = (d3, d5, d9, d25, d39, d44, d50, d70, d80, d120). Consider new retrieval algorithm has been designed and has been evaluated for information request q returns, ranking of the documents in the answer set is as follows.

 [6]
 - 1) <u>d120</u> d143
 - 2) d84 (10) <u>d25</u>
 - 3) <u>d50</u> 11) d38
 - 4) d6 12) d48
 - 5) d8 13) d230
 - 6) <u>d9</u> 14) d113

 - 8) d129

The documents that are relevant to the query q are underlined. Calculate precision and recall for the documents that are relevant to the query q.

- b) What are measures used to evaluate system performance? [6]
- c) What are various techniques used to specify query in information visualization? [6]

OR

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	26.7	
b)	Explain in detail Content Based Recommendation of Documents.	[8]
		[9]
Q8) a)	Explain difference between Text-centric and Data-centric XML retriev	val.
0)	OR	[ս]
Q7) a) b)		[8]
07) a)	Define Recommender system? Explain in brief Collaborative Filtering.	[0]
c)	Explain Web Scrapping with suitable example.	[6]
b)	Write a note on characterizing the web.	[6]
~ //	searching using hyperlinks	[6]
Q6) a)	What is hyperlink? Explain structure of hyperlink and also expl	ain
	OR	լսյ
c)	What is role of crawler in web searching? Explain the strategies used the web crawler.	by [6]
b)		[6]
Q5) a)	Write a short note on Searching the Web.	[6]
		[8]
b)	What is Query Languages with respect to multimedia IR Explain in	
Q4) a)	Explain in details the working of MULTOS data model.	[9]
	OR	[ս]
b)	What is Collection Partitioning with respect to distributed IR Explain detail.	1 in [8]
1 \		[9]
Q3) a)	What is distributed IR? Explain the architecture of distributed IR in det	ail.
<i>C)</i>	judgements, pseudo relevance feedback.	[6]
c)	evaluating IR system. What is relevance Judgement? Explain the term group relevan	[6]
b)	Define Precision and Recall. Give example of each and justify its use	
	systems.	[6]
Q2) a)	What are User oriented measures used in performance evaluation of	IR