Total No. of Questions: 8]	20	SEAT No. :
PA-945		 [Total No. of
	[5927]-391	

B. E. (Information Technology) INFORMATION AND STORAGE RETRIEVAL (2019 Pattern) (Semester - VII) (414441)

Time: 2½ Hours]	[Max. Marks : 70
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Instructions to the candidates:

- Answer 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. *2*)
- Figures to the right indicate full marks. *3*)
- Assume suitable data, if necessary. *4*)
- In information retrieval, if q is the information request and a set of relevant **Q1**) a) 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 10) in the answer set is as follows. **[6]**
 - 1) d120 d143
 - d25 2) d84
 - d38 3) d50
 - 12) d48 4) d6
 - 5) d8 13) d230
 - 6) d9 d113
 - 7) d58 15) d3
 - 8) d129

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

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

Pages: 2

Q2) a)	What are User oriented measures used in performance evaluation of IR systems. [6]
b)	
b)	Define Precision and Recall. Give example of each and justify its use in evaluating IR system. [6]
c)	What is relevance Judgement? Explain the term group relevance
	judgements, pseudo relevance feedback. [6]
Q3) a)	What is distributed IR? Explain the architecture of distributed IR in detail.
20, 11,	[9]
b)	What is Collection Partitioning with respect to distributed IR Explain in
,	detail. [8]
	OR %
Q4) a)	Explain in details the working of MULTOS data model. [9]
b)	What is Query Languages with respect to multimedia IR Explain it in
- /	detail. [8]
Q5) a)	Write a short note on Searching the Web. [6]
b)	Explain Crawler-Indexer Architecture with neat diagram. [6]
c)	What is role of crawler in web searching? Explain the strategies used by
ŕ	the web crawler. [6]
	OR
Q6) a)	What is hyperlink? Explain structure of hyperlink and also explain
	searching using hyperlinks [6]
b)	Write a note on characterizing the web.
c)	Explain Web Scrapping with suitable example. [6]
	Sp.
Q7) a)	Define Recommender system? Explain in brief Collaborative Filtering. [9]
b)	Explain semantic web in details. [8]
	OR
Q8) a)	Explain difference between Text-centric and Data-centric XML retrieval.
	[9]
b)	Explain in detail Content Based Recommendation of Documents. [8]
	9.1
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