Total No. of Questions : 8]

SEAT No. : [ ]

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B.E. (IT)

INFORMATION AND STORAGE RETRIEVAL

(2019 Pattern) (Semester - VII) (414441)

Time : 2½ Hours] ***[Max. Marks : 70***

Instructions to the candidates:

1) ***Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right side indicate full marks.***
4) ***Assume suitable data if necessary.***

Q1) a) Why are the performance evaluation measures needed in IR system? Explain trade-off between Recall and Precision. **[6]**

b) What are alternative measures used to evaluate system performance in IR. **[6]**

c) Explain in detail the term NDCG. Explain with a suitable example. **[6]**

OR

Q2) a) What are User oriented measures used in performance evaluation of IR system. **[6]**

b) Explain MRR and F-Score measures used in performance evaluation of IR systems. **[6]**

c) Define and explain Interface support for search process related to visualization in information system. **[6]**

Q3) a) What is distributed IR? Explain it with the help of Source Selection? **[8]**

b) What is Query processing? How is it processed in distributed IR? **[9]**

OR

Q4) a) What is multimedia IR? Explain the architecture of multimedia IR in detail. **[9]**

b) Explain Collection partitioning with respect to Distributed IR. **[8]**

P.T.O.

Q5) a) Explain search engine mechanism with a neat diagram. **[6]**

b) What is page ranking? Explain role of page ranking in web searching. **[6]**

c) Write a note on request module and beautiful soup library. **[6]**

OR

Q6) a) Explain difference between centralized and distributed architecture of search engine. **[6]**

b) Define and explain the following terms with respect to web searching. **[6]**

i) Crawling

ii) Web directories

c) Explain Web Scrapping with a suitable example. **[6]**

Q7) a) Differentiate Collaborative filtering and Content Filtering. **[8]**

b) Define Recommender system? Explain Collaborative Filtering in brief. **[9]**

OR

Q8) a) Explain Text-Centric and Data-Centric XML retrieval. **[8]**

b) Explain in detail Content Based Recommendation of Documents. **[9]**