

Total No. of Questions : 8]

SEAT No. :

P-611

[Total No. of Pages : 2

[6004]-563

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]

