Total No. of Questions : 8]

SEAT No. :

P-6628

[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 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 indicate full marks.*
4) *Assume suitable data, if necessary.*

Q1) a) Calculate the precision and recall scores for the search, using the given data. **[6]**

A database contains 160 relevant records on a particular topic and a search was conducted on that topic and 120 records were retrieved. Out of 120 records retrieved, 90 were relevant.

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

c) Explain in detail the term Precision and Recall. Explain with suitable examples. **[6]**

OR

Q2) a) What are User oriented measures used in performance evaluation of IR systems. **[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. **[9]**

b) Explain model of Multimedia information retrieval. **[8]**

OR

P.T.O.

Q4) a) What is multimedia IR? Explain the architecture of multimedia IR in detail. **[8]**

b) Explain Collection Partitioning with respect to Distributed IR. **[9]**

Q5) a) What is page ranking? Explain role of ranking in web searching with algorithm. **[8]**

b) Write a note on **[10]**

i) Request module and beautiful soup library.

ii) Web scraping

OR

Q6) a) Explain difference between centralized and distributed architecture of search engine. **[9]**

b) What is web searching? Define and explain the following terms with respect to web searching **[9]**

i) Crawling

ii) Web directories

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

b) Explain Vector Space Model for XML Retrieval. **[9]**

OR

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

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

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