

Total No. of Questions :8]

SEAT No. :

PE2269

[Total No. of Pages : 2

[6584]-173

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

Time : 2 ½ 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) Define and explain the following terms. [6]

i) MRR

ii) NDCG

b) Calculate precision and recall scores for the search, using the given data. A database contains 80 records on a particular topic and a search was conducted on that topic and 60 records were retrieved. Out of 60 records retrieved, 45 were relevant. [6]

c) What are the various techniques used to specify query in information visualization? [6]

OR

Q2) a) What are User oriented measures used in performance evaluation of IR systems? [6]

b) Explain DCG and F-Score measures used in performance evaluation of IR system. [6]

c) Define and explain the following terms [6]

i) Precision

ii) Recall

P.T.O.

- Q3)** a) What is data modelling in multimedia IR? Explain it in detail? [9]
b) Explain in detail Multimedia office Server (MULTOS). [8]

OR

- Q4)** a) What is multimedia IR? Explain GEMINI approach for Multimedia IR. [9]
b) Describe Multimedia data support in Commercial DBMS? [8]

- Q5)** a) Explain search engine mechanism with a neat diagram. [6]
b) Explain Crawler-indexer Architecture with neat diagram. [6]
c) Discuss the challenges faced in web searching. [6]

OR

- Q6)** a) Write a short note on Web Scraping. [6]
b) What is ranking? Explain importance of ranking in detail. [6]
c) Write a note on request module and beautiful soup library. [6]

- Q7)** a) Define Recommender system? Explain in brief Content based recommendation [9]
b) Explain Vector Space Model for XML Retrieval. [8]

OR

- Q8)** a) Explain in detail Content Based Recommendation of Documents. [9]
b) Differentiate between Collaborative filtering system and content based filtering system. [8]

