

Total No. of Questions : 12]

SEAT No. :

P850

[Total No. of Pages : 2

[4458] - 802

B.E. (Information Technology) (Semester - II)

INFORMATION RETRIEVAL

(2008 Course)

Time :3 Hours]

[Max. Marks :100

Instructions to the candidates:

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 from section I and Q.7 or Q. 8, Q.9 or Q.10, Q.11 or Q.12 from section II.*
- 2) *Answers to the two sections should be written in separate books.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Figures to the right indicate full marks.*
- 5) *Use of electronic pocket calculator is allowed.*
- 6) *Assume suitable data, if necessary.*

SECTION - I

Q1) a) With the help of block diagram explain typical Information Retrieval System. [8]

b) Explain conflation algorithm in detail. [8]

OR

Q2) a) Explain Rochhio's algorithm. [8]

b) State & explain different matching coefficients. [8]

Q3) a) What is inverted file? How it can be used in Information Retrieval? [8]

b) Describe Boolean & vector model. [8]

OR

Q4) a) Describe cluster based retrieval. [8]

b) Explain with formulae basic probability model. [8]

Q5) a) Describe TREC collection with task and measures at TREC conference. [10]

b) Explain Precision & Recall with suitable example. [8]

P.T.O.

OR

- Q6)** a) Discuss the architectural issues in Digital libraries. [10]
b) Describe Online Retrieval System. [8]

SECTION - II

- Q7)** a) Describe parallel computing by stating commonly used taxonomies of parallel architecture. [8]
b) Explain Collection partitioning & source selection w.r.t. Distributed IR. [8]

OR

- Q8)** a) Distinguish between parallel and distributed IR. [8]
b) Explain Query Processing in distributed IR system. [8]

- Q9)** a) Explain GEMINI algorithm for indexing of two dimensional color images. [10]
b) Describe automatic feature extraction with the help of proper example. [8]

OR

- Q10)** a) Describe Multimedia Data Support in Commercial DBMS. [10]
b) Explain how image can be retrieved using image contents as the basis of retrieval. [8]

- Q11)** a) Compare centralized & distributed architecture of search engine. [8]
b) Write short note on characterizing the web. [8]

OR

- Q12)** a) Describe collaborative filtering. [8]
b) Write short note on web crawlers. [8]

