Total No. of Questions : 12] [Total No. of Pages : 2

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[3664]-358
B.E. - (I.T.) (Semester - II)
INFORMATION RETRIEVAL
(2003 Course)

Time : 3 Hours] *[Max. Marks : 100*

Instructions to the candidates:

1) ***Answer Question 1 or 2, 3 or 4, and 5 or 6 from section - I and Question 7 or 8, 9 or 10, and 11 or 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) ***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) What is Clustering? Explain the use of clustering in IR. **[8]**

Q3) a) What is inverted file? How it can be used in information retrieval? **[8]**

b) Describe various classification methods based on relations between properties, classes & objects. **[8]**

OR

Q4) a) Explain Suffix arrays with the help of diagram. What is supra index? How it can be constructed? **[8]**

b) Describe the Boolean & Vector Model. **[8]**

Q5) a) What are the different starting points. **[10]**

b) Explain Information Access Process. **[8]**

OR

P.T.O.

Q6) Write short Notes on : [18]

a) Precision and Recall.

b) 'Online Public Access Catelog' (OPAC).

c) Luhn's idea.

SECTION - II

Q7) a) Write a note on : SQL3 and Online Retrieval Systems. [8]

b) Discuss the Write a short note on following points with respect to Digital Libraries; [8]

- DL architecture issues.
- Document models, representation and access.
- Prototypes, projects and interface standards.

OR

Q8) a) Explain with formulae the basic probabilistic model. [8]

b) Design user interface of search engine using various visualization techniques. [8]

Q9) a) Describe MIMD architecture with respect to parallel IR. [8]

b) Explain the automatic Feature Extraction. [8]

OR

Q10) a) Explain the One dimensional time series. [8]

b) Describe query processing in distributed IR systems. [8]

Q11) a) Write a note on : characterizing the web. [10]

b) Explain MULTOS data model. [8]

OR

Q12) a) Write a note on : Multilingual IR. [10]

b) Elaborate the characteristics of the query language used in multimedia IR systems. [8]

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