SEAT No. :

P3417

[4959]-192

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B.E.(Information Technology)
INFORMATION RETRIEVAL
(2008 Pattern) (414449)

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

Instructions to the candidates:

1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8,Q9 or Q10, Q11or Q12.*
2) *Answer to the two sections should be writtern 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) In your words explain what do you mean by Information Retrieval? Also explain the Information Retrieval System with the help of block diagram. **[8]**

b) Explain in detail various paramenters used while designing any clustering algorithm. **[8]**

OR

Q2) a) What are different constituents of Classification methods and with proper example explain relations that exist among them **[8]**

b) Explain Hierarchic clustering Algorithm? Comment if Hierarchic methods are suitable for document clustering? **[8]**

Q3) a) Explain Vector Model in detail. **[8]**

b) Explain Ring Structure. Discuss its Advantages and Disadvantages. **[8]**

OR

Q4) a) What do you mean by coordination level? For the following query what If for the following Ki list the set of documents are: **[6]**

K1- list: D1, D2,D3,D4

K2-List: D1, D2

K3-List: D1,D2,D3

K4-List: D1

Then query Q=K1 AND K2 AND K3 find out the ranking

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b) Explain Sequential files and their advantages and Disadvantages in detail. **[6]**

c) Write note on: Suffix Array **[4]**

Q5) a) Explain the terms Precision and Recall. **[8]**

Assume the following:

• A database contains 80 records on a particular topic

• A search was conducted on that topic and 60 records were retrieved.

• Of the 60 records retrieved,45 were relevant.

Calculate the precision and recall scores for the search.

b) Explain user oriented measures with the help of venn diagram. **[6]**

c) Write Note on: OPAC **[4]**

OR

Q6) a) Discuss the architectural issues in Digital library. **[8]**

b) Explain Alternative Measures in detail. **[6]**

c) Write note on : TREC **[4]**

SECTION-II

Q7) a) Describe Ontology in Information Retrieval and its use? **[8]**

b) What is Parallel Computing? Explain taxonomy of parallel architectures **[8]**

OR

Q8) a) With respect to various aspects discuss MIMD architectures. **[8]**

b) Define Ontology? Explain in detail reasons to develop Ontology. **[8]**

Q9) a) What is the role fo Multimedia in commerical Database Management System? **[8]**

b) Discuss MULTOS in short **[8]**

OR

Q10) a) Write note on Generic Multimedia Indexing Approach(GEMINI)? **[8]**

b) Discuss SQL3 in short. **[8]**

*Q11)*a) Discuss the centralized architecture of the search engine: Enlist the drawbacks of Harvest architecture. **[12]**

b) What do you mean by web crawler and briefy explain the working of web crawler **[6]**

OR

*Q12)*a) Write short notes on: Challenges in web search. **[6]**

b) What is Web Usage mining. **[6]**

c) Explain Meta searches with example. **[6]**

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