Total No. of Questions : 12]

SEAT No. :

P1790

[Total No. of Pages : 2

[4859]-192

B.E. (Information Technology)

INFORMATION RETRIEVAL

(2008 Course) (Semester-II) (414449)

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

Instructions to the candidates:

1) ***All questions are compulsory***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right indicate full marks.***
4) ***Assume suitable data if necessary.***

SECTION-I

Q1) a) Discuss Luhn's idea and explain Conflation Algorithm with a suitable example. **[10]**

b) Explain the differences between Data Retrieval and Information Retrieval. **[8]**

OR

Q2) a) Enlist the algorithms used for clustering and explain Single pass clustering algorithm. **[10]**

b) Explain exhaustivity and specificity with respect to Index term weighting. **[8]**

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

b) Explain the different types of search strategies. **[8]**

OR

Q4) a) Explain Inverted Index file. How can it be used in Information Retrieval? **[8]**

b) Explain various IR models in detail with their advantages and disadvantages. **[8]**

Q5) a) Explain the need for Single Value Summaries and various strategies in detail. **[10]**

b) Discuss retrieval performance evaluation. **[6]**

OR

P.T.O.

Q6) a) What are digital libraries? **[6]**

b) Write short notes on: **[10]**

i) Online IR system.

ii) User oriented measures.

SECTION-II

Q7) a) Explain Collection Portioning, Source Selection and Query processing in distributed IR. **[10]**

b) State and explain the four parallel computing architectures. **[8]**

OR

Q8) a) Describe MIMD architecture with respect to parallel IR. How is Inverted file used in MIMD architecture? **[10]**

b) What is parallel computing? Discuss performance measures of parallel computing. **[8]**

Q9) a) How is image analysis and image access accomplished in MULTOS? **[8]**

b) Explain in detail GEMINI approach for multimedia IR. **[8]**

OR

*Q10)*a) What is Multimedia Information Retrieval? Discuss steps in Multimedia IR. **[8]**

b) Explain the feature extraction and distance function for 2D color image. **[8]**

*Q11)*a) What are Meta crawlers? Explain with a suitable example. **[8]**

b) Discuss different forms of searching the web with proper examples. **[8]**

OR

*Q12)*a) Explain the different components of web crawler. **[8]**

b) Write a note on web data mining. **[8]**

●●●●●