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P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belgaum)
Sixth Semester, B.E. - Information Science and Engineering
Semester End Examination; June - 2016
Modern Information Retrieval

Time: 3 hrs

Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

UNIT - I

- 1 a. Define Modeling. Explain Boolean model for Retrieval task. 10
- b. Consider an example of text documents explain how text documents are represented using vector space model? 10
- 2 a. Write a mathematical model used to represent information retrieval model. Explain the Neural Network model. 10
- b. Explain the Taxonomy of information retrieval models available for browsing. 10

UNIT - II

- 3 a. Explain the importance of bench marking dataset. List and explain the various standard Reference collections available to evaluate Text data. 10
- b. Define pattern. Explain the types of patterns. 10
- 4 a. Why do you need a performance evaluation metrics? Explain any four metric available to evaluate an IR system. 10
- b. Distinguish between SGML, HTML and XML. 10

UNIT - III

- 5 a. Explain the shift-or and suffix Automation. 10
- b. Explain the importance of pre-processing. List and explain at least three pre-processing techniques for text documents. 10
- 6 a. Consider an example and explain the working principles of Huffman coding. 10
- b. Explain suffix tree, suffix array and signature file with example. 10

UNIT - IV

- 7 a. With a neat diagram, explain the working principles of MIMD architecture. 10
- b. Discuss the GEMINI algorithm with example. 10
- 8 a. Explain the MULTOS Query Language with example. 10
- b. Explain the distributed IR. 10

UNIT - V

- 9 a. List and explain the various challenges posed by the web. 10
- b. With a neat diagram, explain the working principle of distributed Harvest architecture. 10
- 10 a. List and explain the searching using hyperlinks. 10
- b. Explain the importance of page Ranking. Also explain how to crawl the web. 10

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