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R15

Code No: 127DX

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, November/December - 2018

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INFORMATION RETRIEVAL SYSTEMS

(Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

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(25 Marks)

- 1.a) Write a short note on inference networks. [2]
- b) Explain briefly Boolean Indexing retrieval strategy. [3]
- c) What is result set clustering. [2]
- d) Briefly explain N-gram retrieval utility. [3]
- e) Write a short note on Query translation used in cross language information retrieval. [2]
- f) What is pivot language? [3]
- g) What is k-scan algorithm [2]
- h) Write a short note on duplicate elimination. [3]
- i) Write a short notes on Boolean Retrieval. [2]
- j) Write a brief note on Page Rank algorithm. [3]

AG AG AG AG PART-B AG AG AG A

(50 Marks)

2. Define vector space model and calculate the Similarity coefficients with an example.[10]

OR

- 3.a) Explain in detail about Non Binary independence model.
- b) Explain the procedure to calculate weighting factor for a term in a document. [5+5]

4. Explain how Relevance feed back is implemented using vector space model. [10]

OR

- 5.a) Write a short note on Damashek clustering method.
- b) Explain in detail how thesaurus is constructed manually. [5+5]

- 6.a) Explain in detail about R-Distance measure.
- b) Write a short note on semantic network retrieval utility. [5+5]

OR

- 7.a) Explain in detail about Part-of-speech (POS) taggers and word sense taggers. [5+5]
- b) Write a short on parsing of simple phrases. [5+5]

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8. What is inverted index? Explain in detail about inverted index compression with an example. [10]

OR

9.a) Explain briefly about query processing. [5+5]
b) Explain in detail about signature files.

10.a) Explain how information retrieval can be considered as a relational application. [5+5]
b) Explain in detail about multidimensional data model.

OR

11.a) Write a short note on evaluation of web search engines.
b) Explain with a neat diagram about distributed information retrieval. [5+5]

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