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R13 Code No: 117DX JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, April/May - 2018 INFORMATION RETRIEVAL SYSTEMS (Common to CSE, IT) 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. [2] Write the assumptions of vector space model. 1.a) [3] Define recall and precision. b) [2] Define dendogram. c) [3] Write the challenges of relevance feedback. d) [2] Define index pruning. e) What is the inverted file? How is it useful in information retrieval? [3] f) [2] Define fusion. g) [3] What is semantic network? Give an example. h) [2] Define link analysis. i) What is high precision search? Explain it briefly. i) PART-B (50 Marks What is simple term weight? Explain in detail. 2.a) [5+5]Explain the procedure to rank the components. b) Describe Poisson model. 3.a) [5+5] Give a detailed description on language model. b) Write about the importance of relevance feed back in probabilistic model. 4.a) Explain various method to construct the sauri automatically. b) Explain the following. 5. a) Rocchio Clustering. [5+5] b) Result Set Clustering. Discuss various distance measures in semantic networks. Explain, how rank is done based on constrained spread activation. b) OR Explain different approaches for choosing translation in language barrier. 7.aGive a note on language model for cross language information retrieval. [5+5] b)

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What is inverted index? Explain the methods to construct inverted index? 8.a)

What is signature file? Explain, how it is useful in information retrieval. b)

[5+5]

What is I-match? Explain in detail?
Write a note on variable length index compression.

What is index table? Explain how xml data is stored in index table?

Explain the searching methods in xml file using relational schema. OR

[5+5]

Describe Boolean retrieval model. 11.a)

Compare cauterized and distributed information retrieval systems.

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