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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, December - 2019 INFORMATION RETRIEVAL SYSTEMS

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. PART - A 5×5 Marks = 25 Define Information Retrieval. Explain how Information Retrieval is different from 1.a) DBMS. b) Explain briefly the system issues in Information Retrieval. [5] Write a short note on the challenges faced in XML Retrieval. [5] c) What is Matrix Decomposition? State the two theorems associated with Matrix d) Decomposition. [5] Write a short note on Connectivity Servers. [5] e) PART - B $5 \times 10 \text{ Marks} = 50$ 2. Explain in detail about: a) Single-Pass-in Memory Indexing. b) Distributed Indexing. [5+5]3.a) Write a short note on Wildcard Queries. Explain in detail about Stemming and Lemmatization. b) [5+5]4. Explain in detail about components of Information Retrieval System. [10] OR 5. Explain in detail variant tf-idf functions used for assigning weight to terms in a document for Retrieval. [10] Explain in detail various types of Language Models. 6.a) b) Write a short note on Language Models versus Other Approaches in IR. [5+5]OR 7. Explain in detail about Naïve Bayes Text Classification. [10] 8. Explain in detail about Hierarchical Agglomerative Clustering. [10] Write a short note on machine learning methods in ad-hoc information retrieval. 9.a) b) Explain in detail about Soft Margin Classification. [5+5]10.a) Explain in detail about DNS Resolution. Write a detailed note on URL Frontier. [5+5]OR

What is PageRank? Explain in detail about Markov Chains.