

Code No: 873AE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA III Semester Examinations, September/October - 2022
INFORMATION RETRIEVAL SYSTEMS

Time: 3 Hours

Max.Marks:75

Answer any five questions
All questions carry equal marks

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1. What is Information Retrieval? Explain in detail the Vector Space Model Retrieval Strategy with an example. [15]
2. Explain Probabilistic retrieval strategy. Calculate the similarity coefficient and determine the ranking of following documents in Probabilistic retrieval strategy. [15]
Q: gold silver truck
D1: shipment of gold damaged in a fire
D2: delivery of silver arrived in a silver truck
D3: shipment of gold arrived in a truck
- 3.a) Explain the use of Probabilistic Model in Relevance Feedback.
b) State the concept of Clustering as a Retrieval Utility. [9+6]
4. Write a detailed note on *n-gram* developed by D Amore and Mah with an illustrative example. [15]
5. Explain in detail the resources used to implement the Cross-Language Information Retrieval Systems. [15]
- 6.a) Discuss Ranking based on Constrained Spreading Activation.
b) State the use of POS word sense tagging. [7+8]
- 7.a) Differentiate “Digital Library” and an “Information Retrieval System”. What new areas of information retrieval research may be important to support a Digital Library?
b) Define how inverted index allows quick search of a posting list. [10+5]
8. Discuss in detail about information retrieval as relational application. [15]

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