

**Code No: 137DM****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech IV Year I Semester Examinations, December - 2019****INFORMATION RETRIEVAL SYSTEM****(Information Technology)****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 as sub questions.

**PART – A****(25 Marks)**

- 1.a) Write a brief note on Digital Libraries. [2]
- b) What is the impact on precision and recall in the use of Stop Lists? [3]
- c) Define Indexing and list types of indexing. [2]
- d) How does the process of Information Extraction differ from the process of Document Indexing? [3]
- e) What is Manual Clustering? [2]
- f) Discuss briefly about Hypertext Linkages in IRS. [3]
- g) Write a short note on Ranking Algorithms. [2]
- h) How would you define an item on the internet with respect to a search statement and similarity function? [3]
- i) Write a brief note on Spoken Language Audio Retrieval. [2]
- j) Explain the Text Streaming Architecture with a neat diagram. [3]

**PART – B****(50 Marks)**

2. Describe how the statement “language is the largest inhibitor to good communications” applies to Information Retrieval Systems. [10]
- OR**
3. Discuss in detail the search capabilities of Information Retrieval Systems. [10]
  4. Explain in detail the Indexing Process for IRS with a neat diagram. [10]
- OR**
5. Apply the Porter Stemming Algorithm steps to the following words: Irreplaceable, Informative, Activation and Triplicate. [10]
  6. Explain in detail about Concept Indexing. [10]
- OR**
7. Will the Clustering process always come to the same final set of Clusters, no matter what the starting Clusters? Explain your answer. [10]

8. Describe the need for information visualization. Under what circumstances is information visualization not useful? [10]

**OR**

9. Discuss in detail about the relevance feedback and explain the impact of positive and negative feedbacks on retrieval Strategy. [10]

10. Explain in detail about software text search Algorithms. [10]

**OR**

11.a) List three applications for Content Based Video retrieval.

b) Distinguish between face detection, face recognition, and face retrieval. [4+6]

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