

Set No. 1

Set No. 2

Set No. 3

Set No. 4

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2016

INFORMATION RETRIEVAL SYSTEMS

(Computer Science and Engineering)

Time: 3 hours**Max. Marks: 75**

Answer any FIVE Questions

All Questions carry equal marks

- 1 a) What are the objectives of information retrieval systems? [8]
b) Explain the differences between Information Retrieval Systems and DBMS. [7]
- 2 a) Explain the weighting process of index terms. [9]
b) Write a brief note on Information Retrieval System capabilities. [6]
- 3 a) Which stemming technique is used by INQUERY system? Explain. [8]
b) Describe briefly Hypertext data structure. [7]
- 4 a) What information is available in a natural language based indexing that is not available in normal statistical systems? What effect does this have on the search process? [8]
b) Describe the Concept Indexing with an example. [7]
- 5 a) Discuss how clustering effects the precision and recall. [6]
b) Explain how to determine the clusters using Clique and Single Link techniques with an example. [9]
- 6 a) Explain the use of neural networks for the learning function. [7]
b) Why is relevance feedback required in User Search Techniques? Explain. [8]
- 7 a) Explain the *Cone Tree* information visualization technology. [8]
b) What are the set of rules postulated by Gestalt psychologists for visualization? [7]
- 8 a) Write the criteria used for GESCAN and Fast Data Finder hardware text search machines? Why was this approach used over others? [10]
b) What are the two types of retrieval examined at TREC? [5]