

Code No: RT41056

R13**Set No. 1**

IV B.Tech I Semester Supplementary Examinations, February/March - 2018

INFORMATION RETRIEVAL SYSTEMS

(Common to Computer Science and Engineering and Information Technology)

Time: 3 hours

Max. Marks: 70

*Question paper consists of Part-A and Part-B**Answer ALL sub questions from Part-A**Answer any THREE questions from Part-B*

PART-A (22 Marks)

1. a) What is finite automata? [4]
- b) Write a note on tries. [3]
- c) Define the compression performance. [4]
- d) What is proximity searching? [3]
- e) Write a note on affix removal stemmers. [4]
- f) Explain the term relationships. [4]

PART-B (3x16 = 48 Marks)

2. a) Explain the data structures in detail. [8]
- b) Describe the IR system evaluation. [8]
3. a) Define the building an inverted files using a sorted array. [8]
- b) Explain the Structures used in inverted Files. [8]
4. a) Define the compressed bit slices. [8]
- b) Describe the Gustafson's method. [8]
5. a) Write a note on delayed reading paradigm. [8]
- b) Explain about PAT tree represented as arrays. [8]
6. a) Write about the experimental evaluations of stemming. [8]
- b) Explain the stemming to compress inverted file. [8]
7. a) What are the features of thesauri? [8]
- b) Write about the construction of vocabulary. [8]