Code: 13A05708

R13

B.Tech IV Year I Semester (R13) Regular Examinations November/December 2016

INFORMATION RETRIEVAL SYSTEMS

(Common to CSE and IT)

Time: 3 hours Max. Marks: 70

PART – A

(Compulsory Question)

*****

1 Answer the following: (10 X 02 = 20 Marks)

(a) What is non binary independence model?
(b) What is the use of thesaurus?
(c) What is the importance of Signature files?
(d) Discuss Retrieval Utilities.
(e) Explain fixed length index compression.
(f) What is the need for Clustering?
(g) Define Information Extraction.
(h) Define Thesaurus.
(i) What is the need for Query Processing?
(j) Explain Parsing.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2 (a) Show how inference networks can be used to model either the vector space model or the probabilistic model.
(b) Explain methodology of Probabilistic retrieval strategies.

OR

3 (a) Explain the functional overview of the Information Retrieval System.
(b) Explain non binary independence model.

UNIT – II

4 (a) Compare N-gram Data Structure and PAT data structure.
(b) What is the purpose of Thesaurus? Explain what it contains.

OR

5 Justify thesaurus are subclass of concept classes. Explain how thesaurus can be used to expand a query.

UNIT – III

6 (a) Explain the concept of Semantic Networks and discuss various distance measures.
(b) Explain and give a case study for syntactic parsing.

OR

7 Discuss cross language information retrieval.

UNIT – IV

8 (a) Explain how duplicate document detection is done.
(b) Explain the concept of Information Extraction.

OR

9 (a) What is the importance of inverted index? Explain the procedure to build inverted index.
(b) Explain fixed length index compression.

UNIT – V

10 Discuss how semi structured search is done using a relational schema.

OR

11 Explain distributed information retrieval with suitable case studies.

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