

(Following Paper ID and Roll No. to be filled in your
Answer Books)

Paper ID : 113661

Roll No.

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

B.TECH.

Theory Examination (Semester-VI) 2015-16

INFORMATION RETRIEVAL AND MANAGEMENT*Time : 3 Hours**Max. Mar : 100***Section-A**

**Q1. Attempt all parts. All parts carry equal marks. Write
answer of each part in short. (2×10=20)**

- (a) What do you mean by the data retrieval and & information retrieval.
- (b) Discuss the term probabilistic indexing.
- (c) Explain the goals of text retrieval conference.
- (d) What is cluster hypothesis?
- (e) Briefly discuss the boolean model.

(1)

P.T.O.

- (f) Explain about measurements with automatic indexing.
- (g) Describe the different types of information.
- (h) What is prototype ? How it is define in project?
- (i) Discuss the term digital libraries.
- (j) What are the two types of retrieval examined at TREC?

Section-B

Q2. Attempt any five questions from this section.

(10×5=50)

- (a) With the help of block diagram explain typical information retrieval system.
- (b) What were the reasons for origination of information retrieval systems? What reasons forced to do research into information retrieval systems?
- (c) List out the various techniques in automatic term clustering. Explain.

- (d) Explain the concept of text search with relevant examples.
- (e) What is collaborative filtering? Discuss its advantages and disadvantages.
- (f) Define ontology and taxonomy? Explain in detail reasons to develop ontology.
- (g) Explain inverted index file. How it can be used in information retrieval. Explain vector model in detail. State Zipf's law and Luhn's Idea.
- (h) Describe MIMD architecture with respect to parallel IR. How is inverted file used for MIMD?

Section-C

Attempt any two questions from this section. (15×2=30)

- Q3.** Explain collection partitioning, source selection and query processing with respect to distributed IR.
- Q4.** What is multimedia information retrieval? Explain query specification query processing with respect to multimedia information retrieval.

Q5. Write Short Note on:

- (a) Hidden markov model techniques.
- (b) Similarity measures and ranking.
- (c) Single pass algorithm.