**Printed Pages: 4** **NIT-061**

| (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.

(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 Zipfis 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.