

B TECH
(SEM VI) THEORY EXAMINATION 2018-19
INFORMATION RETRIEVEL AND MANAGEMENT

Time: 3 Hours**Total Marks: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A**

- 1. Attempt all questions in brief. 2 x 10 = 20**
- a. Explain the goals of text retrieval conference.
 - b. Discuss the term digital libraries.
 - c. Describe the different types of information
 - d. Write about the query routing problem.
 - e. Give the design issues of crawl module.
 - f. Give the performance measure of parallel computing.
 - g. Discuss the impact of IR on the web.
 - h. What are the components of search engine?
 - i. Write short notes on parallel inverted files.
 - j. What is cluster hypothesis?

SECTION B

- 2. Attempt any three of the following: 10x3=30**
- a. List out the various techniques in automatic term clustering. Explain in detail.
 - b. What is collaborating filtering? Discuss its advantages and disadvantages.
 - c. Describe MIMD architecture with respect to parallel IR. How is inverted file used for MIMD?
 - d. Elaborate the various challenges for effective delivery of digital library architecture.
 - e. Explain three classic models in information retrieval system with their advantages and disadvantages.

SECTION C

- 3. Attempt any one part of the following: 10x1=10**
- a. What is multimedia information retrieval? Explain query specification query processing with respect to multimedia information retrieval.
 - b. Define ontology and taxonomy? Explain in detail reasons to develop ontology.
- 4. Attempt any one part of the following: 10x1=10**
- a. Give brief note about how search engine works.
 - b. Elaborate OPACs and state the limitation of OPACs.
- 5. Attempt any one part of the following: 10x1=10**
- a. Which searching technique is used to search in sorted array implementation of inverted files? Why?
 - b. Explain collection partitioning, source selection and query processing with respect to distributed IR.
- 6. Attempt any one part of the following: 10x1=10**
- a. What is collaborative filtering? Discuss its advantages and disadvantages.
 - b. Explain inverted index file. How it can be used in information retrieval? Explain vector model in detail.
- 7. Attempt any one part of the following: 10x1=10**
- a. Explain Hidden Markov model technique with their advantages and disadvantages. Also state Zipf's law and Luhn Idea.
 - b. What are the characteristics of search engine? Which type of challenges of searching the web. How the web was changed information retrieval?