

Roll No .....

## CS-7004 (3) (CBGS)

B.E. VII Semester

Examination, November 2019

### Choice Based Grading System (CBGS)

#### Modern Information Retrieval

Time : Three Hours

Maximum Marks : 70

- Note: i) Attempt any five questions.  
ii) All questions carry equal marks.

1. a) Explain the issues in the process of Information Retrieval. 7  
b) Discuss the components of Information Retrieval system in detail. 7
2. a) What are the three classical models in information retrieval system? Explain vector space retrieval model with example. 7  
b) Discuss Latent Semantic Indexing in detail. Also list some of its advantages and disadvantages. 7
3. a) How do you expect that relevance feedback using negative judgement will affect the precision and recall? 7  
b) Explain the concept of inverted index file. How it can be used in Information Retrieval? 7
4. a) Explain the crawler indexer architecture. 7  
b) Compare HITS and Page rank algorithm in detail. 7

5. a) Discuss the relevance of Information Retrieval System in context of Digital libraries. 7  
b) Explain snippet generation for online IR system. 7
6. a) What are the performance measures of a search engine? 7  
b) What are the disadvantages of using natural language words for searching with a retrieval system? 7
7. a) Differentiate between Information Retrieval and Web Search. 7  
b) Discuss focused web crawling. Also list some important issues while crawling the web. 7
8. Write short notes on any two of the following: 2×7=14  
i) Deep web  
ii) Search Engine Optimization  
iii) Web Personalization

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