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**Question Paper Code : 50369**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017  
Seventh Semester  
Computer Science and Engineering  
CS 6007 – INFORMATION RETRIEVAL  
(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

**PART – A**

**(10×2=20 Marks)**

1. What is peer-to-peer search ?
2. What are the performance measures for search engine ?
3. What is Zone index ?
4. State Bayes rule.
5. What are politeness policies used in web crawling ?
6. What is inversion in indexing process ?
7. What is snippet generation ?
8. List the characteristics of Map Reduce Strategy.
9. Differentiate supervised and unsupervised learning.
10. What is Dendrogram ?

**PART – B**

**(5×16=80 Marks)**

11. a) i) Differentiate between Information Retrieval and Web Search. (8)  
ii) Explain the issues in the process of Information Retrieval. (8)  
(OR)
- b) Explain in detail, the components of Information Retrieval and Search engine. (16)

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12. a) Write short notes on the following :
- i) Probabilistic relevance feedback. (6)
  - ii) Pseudo relevance feedback. (5)
  - iii) Indirect relevance feedback. (5)
- (OR)
- b) i) Explain in detail about binary independence model for Probability Ranking Principle (PRP). (10)
- ii) Describe how the query generation probability for query likelihood model can be estimated. (6)
13. a) Write short notes on the following :
- i) Focused crawling (4)
  - ii) Deep web (4)
  - iii) Distributed crawling (4)
  - iv) Site map. (4)
- (OR)
- b) i) Explain in detail about finger print algorithm for near-duplicate detection. (8)
- ii) Brief about search engine optimization. (8)
14. a) i) Explain in detail about Community-based Question Answering system. (10)
- ii) Brief on Personalized search. (6)
- (OR)
- b) i) Explain in detail, the Collaborative Filtering using clustering technique. (10)
- ii) Brief about HITS algorithm. (6)
15. a) Explain in detail the Multiple-Bernoulli and the multinomial models. (16)
- (OR)
- b) i) Explain the process of choosing K in K-nearest neighbour clustering. (8)
- ii) Brief about Expectation Maximization algorithm. (8)