

**R13****Code No: 815BJ****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA V Semester Examinations, April/May - 2019****INFORMATION RETRIEVAL SYSTEMS****Time: 3 Hours****Max. Marks: 60****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

**PART - A****5 × 4 Marks = 20**

- 1.a) Compare extended Boolean model and ranked retrieval. [4]
- b) What is parametric index? [4]
- c) What is binary independence model? [4]
- d) What are the measures used for evaluation of external criterion of quality of clusters. [4]
- e) How do the various nodes of a distributed crawler communicate and share URL? Explain. [4]

**PART - B****5 × 8 Marks = 40**

2. Explain token normalization in detail. [8]
- OR**
3. Explain dynamic indexing in detail. [8]
- OR**
4. How does the weight learned for weighted zone scoring? [8]
- OR**
5. Discuss about vector space scoring and query operator interaction. [8]
6. Explain XML retrieval with vector space model. [8]
- OR**
7. Explain various feature selection methods. [8]
8. Discuss about machine learning methods in adhoc information retrieval. [8]
- OR**
9. Explain how K-means is used for document clustering. [8]
10. What are the required features of a crawler? [8]
- OR**
11. How do we compute page Rank? Explain. [8]

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