

**R09**

Code No: F3506

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA V Semester Examinations, August - 2017****INFORMATION RETRIEVAL SYSTEMS****Time: 3hrs****Max.Marks:60**

**Answer any five questions**  
**All questions carry equal marks**

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- 1.a) What is Information Retrieval System? Distinguish between IRS and DBMS.  
b) Explain in detail about Digital Libraries and Data Warehouses. [6+6]
- 2.a) What is concept indexing approach? Explain in detail with a suitable example.  
b) Explain the data flow in an information processing system with a neat sketch. [6+6]
- 3.a) Explain in detail the Porter stemming algorithm  
b) Describe how the PAT Data structure is different from N-gram data structure. [6+6]
- 4.a) What is automatic indexing? Give the various classes of automatic Indexing?  
b) What are the benefits of a weighted index system over a Binary Index system? [6+6]
- 5.a) Compare and contrast manual clustering and Automatic Term Clustering.  
b) Define clustering and explain how clustering effects precision and recall. [6+6]
6. Explain in detail about the following:  
a) Bayesian Model.  
b) Simple Term Frequency Algorithm. [6+6]
7. Explain in detail about Cone-Tree visualization technique. List out its advantages compared with other hierarchical representations. [12]
- 8.a) Explain in detail about text streaming architecture with a neat example.  
b) Discuss about selective dissemination information search techniques with examples.[6+6]

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