

R13**Code No: 815BJ****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA V Semester Examinations, June/July - 2018****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) Define an information retrieval system. [4]
- b) What is scoring? [4]
- c) What are the challenges in XML retrieval? [4]
- d) Discuss about Matrix decompositions. [4]
- e) What are the characteristics of web? [4]

PART - B**5 × 8 Marks = 40**

- 2.a) Explain about index construction.
 - b) Discuss about vocabulary lists. [4+4]
- OR**
3. What is a retrieval model? Explain about boolean retrieval model. [8]
 4. How to compute scores in complete search system? Explain. [8]
- OR**
5. What are the some potential problems in use of relevance feedback on hyper documents? Is the use of positive feedback always better than using a negative feedback to improve a query? [8]
 6. Explain about language models for information retrieval. [8]
- OR**
7. Discuss about vector space classification. [8]
 8. Explain the following.
a) Semantic indexing.
b) Support vector machines. [4+4]
- OR**
9. What is flat clustering? Explain it. [8]
 10. Discuss in detail about Link analysis. [8]
- OR**
11. Write a detailed note on web crawling. [8]