

**R18**

Code No: 155EN

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B. Tech III Year I Semester Examinations, July/August - 2023**

**INFORMATION RETRIEVAL SYSTEMS**

**(Common to CE(SE), CSE(AI&ML), CSE(DS))**

**Time: 3 Hours**

**Max. Marks: 75**

- Note:** i) Question paper consists of Part A, Part B.  
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.  
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

**PART – A**

**(25 Marks)**

- 1.a) Summarize the uses of browse capabilities. [2]
- b) What are the uses of data warehouses. [3]
- c) Explain about the information extraction. [2]
- d) Discuss the PAT data structure. [3]
- e) Explain the advantages of hypertext linkages. [2]
- f) What is item clustering. And list uses of item clustering. [3]
- g) What is similarity measures with examples. [2]
- h) Discuss about searching the INTERNET. [3]
- i) How can we use the graph retrieval system? [2]
- j) Explain the imagery retrieval with simple example. [3]

**PART – B**

**(50 Marks)**

- 2.a) Explain the relationship of DBMS and IRS.
  - b) Make the use of search capabilities with proper examples. [5+5]
- OR**
- 3.a) Examine the digital libraries.
  - b) List and explain the objectives of Information Retrieval System. [5+5]
- 4.a) Analyze the inverted file structure.
  - b) Demonstrate the N Gram data structure. [5+5]
- OR**
- 5.a) Summarize the objectives of indexing.
  - b) Write the importance of hidden markov model in information retrieval systems. [5+5]
- 6.a) Categorize the classes of statistical indexing.
  - b) Make the use of item clustering with simple examples. [5+5]
- OR**
- 7.a) Recommend the thesaurus generation.
  - b) Elaborate the hierarchy of clusters with neat sketch. [5+5]

- 8.a) Examine the weighted searches of Boolean systems.  
b) Explain the cognitive models of information retrieval. [5+5]

**OR**

- 9.a) Illustrate the relevance feedback.  
b) List and analyze the information visualization technologies. [5+5]

- 10.a) Explain the advantages and disadvantages of spoken language audio retrieval.  
b) Explain multimedia information retrieval system. [5+5]

**OR**

- 11.a) Explain the content based video retrieval system.  
b) Discuss the fast data finder hardware text search systems. [5+5]

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Use of paper July/Aug-2023