

**Dr.SNS Rajalakshmi College of Arts & Science (Autonomous)**  
**Coimbatore-49**  
**Department of Information Technology**

**Course Code with Name: 16UCU703: Information Retrieval**

Class: III BSc IT, BCA, CT & CS

Batch:2020-2023

**Q.No Unit Question**

**4 MARKS**

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|----|-----|--|
| 1  | I   | Define Information Retrieval                                 |
| 2  | I   | Write notes on Search Engine                                 |
| 3  | I   | List few challenges in IR systems                            |
| 4  | I   | Find about Exact and Best Match Retrieval                    |
| 5  | I   | Solve the problems given in Skip list                        |
| 6  | I   | How does the introduce in positional postings                |
| 7  | II  | What is Dictionary Data structure                            |
| 8  | II  | Illustrate the application of Wildcard Queries               |
| 9  | II  | Outline Phonetic Correction                                  |
| 10 | II  | Discuss Middleware Systems                                   |
| 11 | II  | Analyze goal of Phonetic Correction                          |
| 12 | II  | Write about Spelling Correction in Dictionary Data structure |
| 13 | III | Why compression shorts for inverted indexes                  |
| 14 | III | summarize the learning weights                               |
| 15 | III | Show the model of Tf-Idf weighting                           |
| 16 | III | Translate Variant to tf-idf function                         |
| 17 | III | Make use it meaning of posting file compression              |
| 18 | III | Experiment with vector space Model                           |
| 19 | IV  | Develop the following inexact Retrieval                      |
| 20 | IV  | select the correct statement of impact ordering              |
| 21 | IV  | What is Tiered Indexes                                       |
| 22 | IV  | Extend about the Cluster pruning                             |
| 23 | IV  | Demonstrate the use of champion Lists                        |
| 24 | IV  | Discuss the issues in Query Term Proximity                   |
| 25 | V   | Basic concepts of Probability theory                         |
| 26 | V   | Classify probability of IR Techniques                        |
| 27 | V   | What about Classification of Text                            |
| 28 | V   | Discover how to Linear and Non Linear classifier             |
| 29 | V   | List out the uses of Rocchio Classifier                      |
| 30 | V   | Find out Evaluation measure of Clustering                    |

**6 MARKS**

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|---|---|--|
| 1 | I | Identify the Building Simple indexes                     |
| 2 | I | Select processing boolean queries language with examples |
| 3 | I | Write short note on Choosing Document unit               |

- 4 I What about information needs and Evaluation of IR
- 5 I Discover about Query Optimization
- 6 I Summarize the Recall Basic Merge in Positional posting
- 7 II Explain Index Construction with examples
- 8 II Model of single pass scheme
- 9 II Examine the Big K-gram indexes
- 10 II Distinguish the isolated word correction
- 11 II Find about Context-sensitive spell correction
- 12 II Divide to Trigram indexes with examples
- 13 III Build for the encoding uses and Variable byte code
- 14 III Analyze of the Parametric and Zone indexes
- 15 III Classify the Variant tf-idf functions
- 16 III Motive term of frequency and weighting
- 17 III Survey on the variable length encoding in compression
- 18 III What are the difference between lossless and lossy compression
- 19 IV Functions of designing, parsing and scoring
- 20 IV develop the impact ordering postings
- 21 IV Analyze of ranked and unranked retrieval result
- 22 IV Explain about the Relevance Feedback
- 23 IV Outline given for assessing relevance method
- 24 IV Examples of two computing in Tired and Zone indexes
- 25 V How to compute probability in estimate
- 26 V Extend the term of Clustering in information Retrieval
- 27 V Relationship between Rocchio and Knearest Neighbour classifier
- 28 V Difference between probability model and other model
- 29 V Explain types of query expansion
- 30 V Discover the evaluation of probability clustering

#### 10 MARKS

- 1 I Explain types of Search Engine
- 2 I What is the term Vocabulary and Posting List
- 3 I Discover the Positional indexes with examples
- 4 II What are the difference between Document correction and spelling correction
- 5 II Summarize the statistical properties of terms
- 6 II Function of processing wildcard queries
- 7 III Determine the three types of posting file compression
- 8 III Function of vector model for scoring
- 9 III Distinguish in Gamma code properties used in compression
- 10 IV Efficient of cosine scoring and ranking method
- 11 IV Estimate for Ranked information retrieval results
- 12 IV Solve the problem of standard test collection
- 13 V Find the Binary independence model of IR
- 14 V Problem and solving the probability ranking principle
- 15 V Inference of probability estimate in relevance feedback





