



TEEGALA KRISHNA REDDY ENGINEERING COLLEGE

(UGC-Autonomous)

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Medbowli, Meerpet, Balapur(M), Hyderabad, Telangana- 500097

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Subject Name : Information Retrieval Systems

Subject Code : 22CS523PE

Degree & Branch: B.Tech, Dept of CSG

Regulation : R22

Year & sem : III – I sem

Faculty Name : Mr. KUNDAN. B

UNIT - I

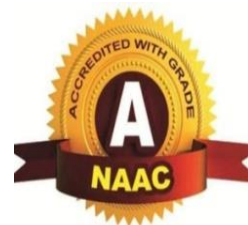
S. No	Short Questions	BL	CO	MARKS
1	Define Information Retrieval Systems?	1	1	2.5M
2	What is Precision & Recall?	1	1	2.5M
3	Define Item Normalization?	2	1	2.5M
4	Explain about Document File Creation?	1	1	2.5M
5	Define Fuzzy searches?	2	1	2.5M
6	What is Z39.50 standard?	1	2	2.5M
S. No	Long Questions	BL	CO	Marks
1	What is Information Retrieval System? Explain about types of searches in IRS?	2	2	10M



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2	Explain about objectives of Information Retrieval Systems?	2	2	5M
3	Explain briefly about functional Overview? Draw with figure?	2	1	10M
4	Explain about Digital Libraries and Dataware houses with list of softwares?	3	2	5M
5	Explain about Information Retrieval System Capabilities <ul style="list-style-type: none"> • Querying • Browsing • Miscellaneous Capabilities 	2	2	10M

UNIT - II

S. No	Short Questions	BL	CO	MARKS
1	Define Indexing?	3	2	2.5M
2	Draw the Text processing phases in IRS?	2	1	2.5M
3	Define PAT Data structure?	2	2	2.5M
4	Explain about Clustering?	1	1	2.5M
5	Explain about Hypertext and XML Data structure?	1	1	2.5M
S. No	Long Questions	BL	CO	MARKS

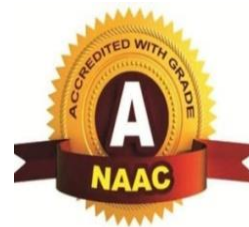
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1	What is Cataloging & Indexing? Explain about types of Cataloging?	2	1	5M
2	Explain about Stemming Algorithm as well as types of stemming?	2	2	10M
3	Explain briefly about Inverted File Structure?	2	2	5M
4	What is Signature File Structure? Explain briefly about Signature File Structure?	3	2	10M
5	What is N-Gram Data Structure? Explain briefly about N-Gram Data Structure?	2	2	10M
6	Explain briefly about Hidden Markov Models?	2	2	10M

UNIT - III

S. No	Short Questions	BL	CO	MARKS
1	Define Thesaurus Generation?	2	1	2.5M
2	Explain about Manual Clustering?	2	1	2.5M
3	What is Information Extraction?	2	1	2.5M
4	Define Automatic Indexing?	2	1	2.5M
5	Draw the neat diagram of Hierarchy of Clusters?	2	1	2.5M
6	Explain about Hypertext Linkage Indexing?	2	2	2.5M

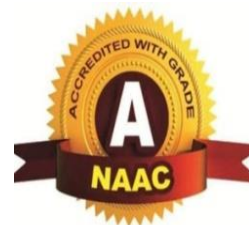
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S. No	Long Questions	BL	CO	Marks
1	Explain briefly about Automatic Indexing? Explain about types of classes Automatic Indexing.	3	3	10M
2	Explain briefly about Natural Language?	3	3	5M
3	Explain briefly about Statistical Indexing?	3	3	5M
4	Explain briefly about Clustering?	3	3	10M
5	What is Thesaurus Generation? Explain briefly about Thesaurus Generation	3	3	5M
6	Calculate the Similarity Measure for the Complete Term Relation Method , Using below Vector sample and draw the final clusters.	3	2	10M

	Term1	Term2	Term3	Term4	Term5	Term6	Term7	Term8
Item 1	0	4	0	0	0	2	1	3
Item 2	3	1	4	3	1	2	0	1
Item 3	3	0	0	0	3	0	3	0
Item 4	0	1	0	3	0	0	2	0
Item 5	2	2	2	3	1	4	0	2



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UNIT-IV

S. No	Short Questions	BL	CO	Marks
1	Define Search statement and Binding?	1	1	2.5M
2	List the types of similarity measures?	1	1	2.5M
3	Define SDI search in IRS?	2	1	2.5M
4	List the different types of information Visualization.	1	1	2.5M
5	Define Cosine similarity measure?	2	2	2.5M
6	What is Cognition & Perception?	1	1	2.5M
S. No	Long Questions	BL	CO	Marks
1	Explain briefly about Search Statements & Binding with neat diagram?	2	1	10M
2	Explain about Relevance Feedback in Relational Model with neat figure of positive Feedback & Negative Feedback?	2	2	10M
3	Explain briefly about Selective Dissemination of Information Search?	2	3	5M

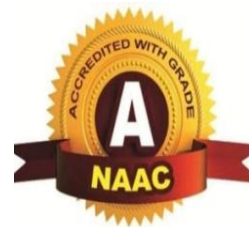
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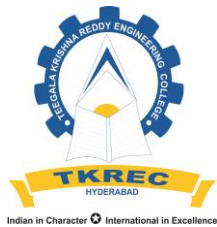
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4	Explain briefly about Searching the Internet & Hypertext as well as Intelligent Agent with 6 characteristics	3	3	5M
5	Explain briefly about Cognition & Perception?	3	2	5M
6	What is Information visualization? Explain about types of Visualizations?	4	4	10M
7	Explain about Similarity Measure Methods with an example?	4	3	10M

UNIT-V

S. No	Short Questions	BL	CO	Marks
1	List the Classical Text retrieval techniques.	1	1	2.5M
2	Draw the Text streaming architecture?	1	1	2.5M
3	List the types of software text search algorithms	2	1	2.5M
4	Define Imagery retrieval?	1	1	2.5M
5	Explain about spoken language Audio retrieval?	2	2	2.5M
S. No	Long Questions	BL	CO	Marks



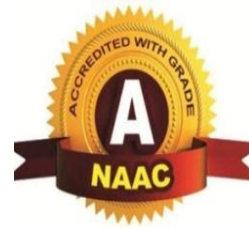
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1	Discuss the Text Search Techniques using Text Streaming Architecture.	2	1	10M
2	Explain briefly about Software Text Search Algorithms.	2	2	10M
3	Explain briefly about Hardware Text Search Algorithms.	2	3	5M
4	Explain about Software Text search algorithms? Find out whether the Pattern is available in the given String or not, using the Knuth-Pratt-Morris algorithm. String: A B A B C A B C D A B A B A B D Pattern: A B A B D	4	3	10M
5	Explain about Spoken Language Audio Retrieval.	3	3	5M
6	Explain briefly about i. Imagery Retrieval ii. Video Retrieval iii. Graph Retrieval	4	4	10M