

MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)
Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section2(f) & 12(B)of the UGC act,1956

III B.Tech I Sem Supply End Examination, December 2022 Information Retrieval Systems

(CSE)

Time: 3 Hours.

Max. Marks: 70

- Note: 1. Question paper consists: Part-A and Part-B.
 - 2. In Part A, answer all questions which carries 20 marks.
 - 3. 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

(10*2 Marks = 20 Marks)

1.	a)	Explain about Miscellaneous Capabilities	2M	CO1	L1
	b)	What are the basic steps involved in the search process for information retrieval?	2M	CO1	L2
	c)	What is Hypertext data structure?	2M	CO2	L1
	d)	What is a signature and how to construct signature file.	2M	CO2	L2
	e)	What is Relevance Feedback?	2M	CO3	L1
	f)	Discuss hypertext linkages	2M	CO3	L4
	g)	List the aspects of the Visualization Process	2M	CO4	L1
	h)	What is high-precision search?	2M	CO4	L4
	i)	What are the objectives of text search algorithms in IRS?	2M	CO5	L2
	j)	What is feature extraction in multimedia IR? How is it helpful for data retrieval?	2M	CO5	L3

PART-B

(10*5 Marks = 50 Marks)

2	Define Information Retrieval System. Explain the objectives of the Information Retrieval System	10M	CO1	L2
	OR			
3	What is a Browse capability? Explain about various browse capabilities.	10M	CO1	L1
4	Apply the poster stemming algorithm for the following words: irresponsible, informative, unrespectable	10M	CO2	L3
	OR			
5	Describe how a bigram data structure would be used to search for the search term "computer science". What are the possible sources of errors that could cause non-relevant items to be retrieved?	10M	CO2	L3

6	What is the purpose of Thesaurus? Explain what it contains.	10M	CO3	L2
	OR			
7	Differentiate between Manual Clustering and Automatic Term Clustering. Explain with suitable examples.	10M	CO3	L2
8	Discuss the difficulties of a user being able to correlate his search to the Hit file. What approach is to be used to overcome these problems?	10M	CO4	L2
	OR			
9	Write short notes on the following with examples i) Similarity measures ii) Ranking algorithms	10M	CO4	L1
1	List out the differences between Boyer-Moore text search algorithm and Knuth-Pratt-Morris algorithm	10M	CO5	L2
	OR			
1	What algorithmetic basis is used for the GESCAN and Fast Data Finder hardware text search machines?	10M	CO5	L2

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CO - Course Outcome

BL - Blooms Taxonomy Levels