R20

Code No: 873AE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA III Semester Examinations, March/April - 2023
INFORMATION RETRIEVAL SYSTEMS

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)	What is precision and recall?	[5]
b)	Write a short note on N-gram.	[5]
c)	What is the use of POS and Word Sense Tagging?	[5]
d)	What is Index Pruning?	[5]
e)	How to Evaluate Web Search Engines?	[5]

PART – B

(50 Marks)

2.	Discuss about various Similarity Measures.	[10]
	OR	
3.	Explain Non-binary independence model.	[10]
4.	Discuss the use of Relevance Feedback in the Probabilistic Models.	[10]
	OR	
5.	Explain Hierarchical Agglomerative Clustering.	[10]
6.	Discuss about the Distance Measures used to compute the distance between nodes in a semantic network.	[10]
	OR	
7.	Describe about approaches to phrase identification.	[10]
8.	Discuss about Reordering Documents Prior to Indexing.	[10]
	OR	
9.	Explain the following related to Query Processing a) Inverted Index Modifications b) Partial Result Set Retrieval.	[5+5]
10.	Explain about the types of semi structured data.	[10]
	OR	
11.	Discuss about Distributed Information Retrieval System Model.	[10]

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