Question Paper Code: R22A31CS08

R22

ANURAG Engineering College

(An Autonomous Institution)

III B.Tech I Semester Regular Examinations, December – 2024

INFORMATION RETRIEVAL SYSTEMS

(COMPUTER SCIENCE AND ENGINEERING)

Time: 3 Hours **Max. Marks: 60**

Section – A (Short Answer type questions) (10 Marks)

Answer All Questions

		Course Outcome	B.T Level	Marks
1.	Write the objectives of Information Retrieval systems.	CO1	L1	1M
2.	Define precision.	CO1	L1	1M
3.	Compare Hypertext and XML Data Structures.	CO2	L2	1M
4.	Define inverted file structure with an example.	CO2	L2	1M
5.	Define Statistical Indexing.	CO3	L1	1M
6.	What is Item Clustering? Give an example.	CO3	L1	1M
7.	What is the need for information visualization?	CO4	L1	1M
8.	Write about Similarity Measures and Ranking.	CO4	L1	1M
9.	Name the Text Search Techniques.	CO5	L1	1M
10.	State Multimedia Information Retrieval.	CO5	L1	1M

Section B (Essay Questions)

Answer all questions, each question carries equal marks. **(5 X 10M = 50M)**

11. A)	List the various stages in Item normalization process. Explain with a neat diagram.	CO1	L2	10M
	OR			
B)	Explain about miscellaneous capabilities.	CO1	L2	10M
12. A)	Explain about objectives and scope of Automatic Indexing.	CO2	L2	10M
	OR			
B)	Discuss Porter's stemming algorithm with an example.	CO2	L3	10M
13. A)	Describe the use of natural language-based indexing system that is not available in normal statistical system? What is its impact on the search process.	CO3	L3	10M
	OR			
B)	i) Illustrate Hierarchy of clusters. ii) Explain about Thesaurus Generation	CO3	L2	10M
14. A)	Briefly explain about relevance feedback with example.	CO4	L2	10M
	OR			
B)	Discuss the features related to cognition and perception.	CO4	L2	10M
15. A)	Use the Boyer-Moore text search algorithm to search for the term FANCY in the text string FANCIFUL FANNY FRUIT FILLED MY FANCY. i) Show all of the steps and explain each of the required character shifts. ii) How many character comparisons are required to obtain a match? iii) Compare this to what it would take using the Knuth-Pratt-Morris algorithm	CO5	L3	10M
	OR			
B)	Describe about the Imagery Retrieval and Video Retrieval.	CO5	L2	10M