| PRN No. | | PAPER CODE | U313 - 215 C - ESE |

COURSE NAME: Information Storage   Branch: AI & DS   COURSE CODE: ADUA31205(C)
Retrieval

(PATTERN 2020)

Time: [1Hr. 30 Min]   [Max. Marks: 40]

(*) Instructions to candidates:
1) **Figures to the right indicate full marks.**
2) **Use of scientific calculator is allowed**
3) **Use suitable data wherever required**
4) **All questions are compulsory. Solve any one sub question from Question 3 and any two sub questions each from Questions 4,5 and 6 respectively.**

Q. No.	Question Description	Max. Marks	CO mapped	BT Level
Q.1	a) Explain the basic concepts of Information Retrieval.	[2]	CO1	Remember
Q2	a) Discuss the importance of file structure in Information Storage and Retrieval.	[2]	CO2	Understand
Q3.	a) Apply parsing data elements in the context of Information Retrieval. Provide a step-by-step explanation.	[6]	CO3	Apply
	b) Analyze different indexing techniques used in Information Retrieval systems. Discuss their advantages and disadvantages.	[6]	CO3	Apply
Q.4	a) Evaluate the measures for relevancy in Information Retrieval. Discuss their significance.	[5]	CO4	Evaluate
	b) Evaluate the use of visual interfaces for output exploration in Information Retrieval. Discuss their advantages	[5]	CO4	Evaluate
	c) Discuss the role of clustering in Information Retrieval. Evaluate its impact on organizing and retrieving relevant information.	[5]	CO4, CO5	Evaluate
Q.5	a) Demonstrate the use of Relevance Feedback in improving search results. Provide a practical example.	[5]	CO5	Demonstrate
	b) Demonstrate the application of another feedback method in enhancing information retrieval. Discuss its effectiveness.	[5]	CO5	Demonstrate

	c) Demonstrate the importance of user profiles in adaptive information retrieval. How do user profiles contribute to personalized search experiences?	[5]	CO6	Demonstrate
Q.6)	a) Apply the Text Classification technique to a real-world scenario. Explain the steps involved.	[5]	CO6	Apply
	b) Apply the concept of Web crawling in the context of Information Retrieval. Discuss the challenges and advantages of using web crawling for data collection.	[5]	CO6	Apply
	c) Apply semantic web principles in the organization of information for improved retrieval. Discuss how the semantic web contributes to more meaningful search results.	[5]	CO6	Apply