

K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

Nov – Dec 2023		
(B.Tech) Program: Computer Engineering Scheme : II		
Examination: LY Semester: VII		
Course Code: CEDLC7044 and Course Name: Information Retrieval		
Date of Exam: 01/12/2023	Duration: 2.5 Hours	Max. Marks: 60

Instructions: (1) All questions are compulsory. (2) Draw neat diagrams wherever applicable. (3) Assume suitable data, if necessary.				
		Max. Marks	CO	BT level
Q 1	Solve any six questions out of eight:	12		
i)	Give any two advantages of using artificial intelligence in information retrieval tasks.	2	CO1	U
ii)	List few Information Retrieval Models	2	CO2	U
iii)	What are the formal characteristics of information retrieval models?	2	CO2	U
iv)	How does keyword-based querying differ from traditional SQL querying?	2	CO3	An
v)	Explain the purpose of stopword removal in document preprocessing.	2	CO4	U
vi)	Define Indexing and searching.	2	CO5	U
vii)	How does a meta search engine work?	2	CO5	An
viii)	What is the Role of Visualization?	2	CO6	U
Q.2	Solve any four questions out of six.	16		
i)	List 5 differences between data retrieval and information retrieval?	4	CO1	U
ii)	Describe a Vector Model. State its advantages and disadvantages.	4	CO2	U
iii)	What is the Z39.50 protocol? Explain its Benefits.	4	CO3	U
iv)	Illustrate the Re-Pair method with its advantages and disadvantages.	4	CO4	U
v)	Explain the crosstalk problem with an example.	4	CO5	U
vi)	Elucidate Non-Search Parts of the Information Access Process.	4	CO6	U
Q.3	Solve any two questions out of three.	16		

K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

Nov – Dec 2023

(B.Tech) Program: Computer Engineering Scheme : II

Examination: LY Semester: VII

Course Code: CEDLC7044 and Course Name: Information Retrieval

Date of Exam: 01/12/2023

Duration: 2.5 Hours

Max. Marks: 60

i)	Describe Information System and its components in detail.	8	CO1	U
ii)	Explain any four Browsing models with suitable examples.	8	CO2	U
iii)	What are Suffix Trees and Suffix Arrays? Explain with suitable examples.	8	CO5	U
Q.4	Solve any two questions out of three.	16		
i)	Draw and explain Pseudo Feedback Architecture in detail.	8	CO3	U
ii)	Explain Ziv-Lempel methods with suitable example	8	CO4	U
iii)	Identify the pattern “abca” from the Text: “bacabcabca” by using Brute Force Approach with stepwise explanation and write the Worst Case Complexity and Average Case Complexity.	8	CO5	AP
