Reg. No.												

Question Paper Code	12801

M.E. / M.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

Second Semester

M.E - Computer Science and Engineering

20PCSEL203 - INFORMATION RETRIEVAL TECHNIQUES

Regulations - 2020

Duration: 3 Hours | Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

		Marks	K – Level	CO
1.	Define Information Retrieval.	2	K1	CO1
2.	List any two issues that affect IR.	2	K1	CO1
3.	What is meant by sparse vector?	2	K1	CO2
4.	Define Ranking.	2	K1	CO2
5.	What is pattern matching?	2	K1	CO3
6.	What is Index compression?	2	K1	CO3
7.	Define Supervised algorithm.	2	K1	CO4
8.	What is Naïve Bayes Theorem?	2	K1	CO4
9.	What is Flat Clustering?	2	K1	CO5
10.	What is Fusion learning?	2	K1	CO5

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

			Marks	K – Level	CO
11.	a)	Discuss the history of IR in detail.	13	K2	CO1
		OR			
	b)	Describe the various components of Information Retrieval System with neat diagram.	13	K2	CO1
12.	a)	Explain in detail on Probabilistic Information Retrieval.	13	K2	CO2
		OR			
	b)	Demonstrate the Vector space model in detail.	13	K2	CO2
13.	a)	Discuss Relevance Feedback and Query Expansion in detail.	13	K2	CO3
		OR			
	b)	Illustrate in detail on Index Construction and Index Compression.	13	K2	CO3

14. a) Summarize in detail about Naive Bayes text classification and list down the properties of Naive Bayes. *13 K2 CO4*

OR

b) Demonstrate about Support Vector Machines in detail. *13 K2 CO4*

15. a) Illustrate Latent Semantic Indexing in detail. *13 K2 CO5*

OR

b) Explain in detail about Matrix decompositions. *13 K2 CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Illustrate Web Crawling in detail. *15 K2 CO6*

OR

b) Discuss in detail on XML Retrieval. *15 K2 CO6*