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Question Paper Code

12018

17 JUL 2023

M.E. / M.Tech. - DEGREE EXAMINATIONS, APRIL/MAY 2023

Second Semester

M.E. - Computer Science and Engineering 20PCSEL203 - INFORMATION RETRIEVAL TECHNIQUES

(Regulations 2020)

Duration: 3 Hours

12.

model.

Max. Marks: 100

Marks, K-Level, CO 2,K1,CO1

PART - A $(10 \times 2 = 20 \text{ Marks})$

Answer ALL Questions

1.	What is the need of an Information Retrieval system?					
2.	Compare Information and Data Retrieval.					
3.	What is Vector space model representation?					
4.	What is probabilistic Information Retrieval?					
5.	How is query Expansion done?					
6.	What is pattern matching?					
7.	Define Unsupervised algorithm.					
8.	What is a Support Vector?					
9.	What is Hierarchical Clustering?					
10.	Write a note on Matrix decompositions?					
PART - B (5 × 13 = 65 Marks) Answer ALL Questions						
11.	a) Describe the various components of Information Retrieval System with neat diagram.	13,K2,CO1				
	OR					
	b) Discuss the framework of Open Source Search engine with necessary diagrams.	13,K2,CO1				

OR

a) Describe the Taxonomy of IR Models and explain about the Boolean

b) Discuss about the Vector Space model with a diagram.

13,K2,CO2

13,K2,CO2

13. a) Explain about Sequential Searching and Pattern Matching.

13,K2,CO3

OR

b) Discuss Relevance Feedback and Query Expansion in detail.

13,K2,CO3

14.	a)	Explain Support Vector machines in detail.	13,K2,CO4
	b)	OR Discuss in detail about Naive Bayes text classification.	13,K2,CO4
15.	a)	Describe Latent Semantic Indexing with a diagram.	13,K2,CO5
		OR	
	b)	Discuss Flat Clustering in detail.	13,K2,CO5
		PART - C $(1 \times 15 = 15 \text{ Marks})$	
16.	a)	Demonstrate Web Crawling in detail.	15,K3,CO6
		OR	
	1.)		15 W2 CO
	b)	Illustrate the Concept of parallel and distributed Information Retrieval and its advantages over traditional IR systems.	15,K3,CO6