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Question Paper Code	12146
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M.E. / M.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2023

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

- | | <i>Marks,
K-Level, CO</i> |
|------------------------------------------------------------|-------------------------------|
| 1. Define Information Retrieval. | 2,K1,CO1 |
| 2. Differentiate Data Retrieval and Information Retrieval. | 2,K2,CO1 |
| 3. What is a Boolean model? | 2,K1,CO2 |
| 4. What is Vector Space model representation? | 2,K1,CO2 |
| 5. How is sequential searching done? | 2,K1,CO3 |
| 6. What is Index compression? | 2,K1,CO3 |
| 7. Define Supervised Learning. | 2,K1,CO4 |
| 8. What is a support Vector? | 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

11. a) Discuss the history of IR in detail. 13,K2,CO1

OR

- b) Explain in detail the various components of Information Retrieval System with a neat diagram. 13,K2,CO1

12. a) Explain Probabilistic Information Retrieval in detail. 13,K2,CO2

OR

- b) Discuss in detail the Vector Space model representation. 13,K2,CO2

13. a) Discuss Relevance Feedback and Query Expansion in detail. 13,K2,CO3

OR

- b) Explain in detail Sequential Searching and Pattern Matching. 13,K2,CO3

14. a) Explain SVM Classifier in detail. *13,K2,CO4*

OR

b) Discuss in detail about Naive Bayes text classification. *13,K2,CO4*

15. a) Discuss in detail about Matrix decomposition. *13,K2,CO5*

OR

b) Explain Flat Clustering in detail. *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Demonstrate Web Crawling in detail. *15,K3,CO6*

OR

b) Illustrate the Concept of Page Rank and how it is used in link Analysis. *15,K3,CO6*