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Question Paper Code: U5807

M.E. DEGREE EXAMINATION, DEC 2025

Professional Elective

Computer Science and Engineering (DATA SCIENCE)

21PDS507 – INFORMATION RETRIEVAL TECHNIQUES

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

1. (a) Demonstrate the retrieval process in IR with suitable examples. CO2-App (20)
Or
(b) Demonstrate how web characteristics influence IR system performance. CO2-App (20)
2. (a) Describe the taxonomy and characterization of various IR models. CO1-U (20)
Or
(b) Explain structured text retrieval models and their importance in modern document retrieval. CO1-U (20)
3. (a) Describe the process of index construction and index compression with suitable examples. CO1-U (20)
Or
(b) Explain the steps involved in query processing with a neat diagram. CO1-U (20)
4. (a) Demonstrate the application of queuing theory in query scheduling and performance evaluation of IR systems. CO2-App (20)
Or
(b) Apply performance measurement techniques to assess efficiency in parallel IR systems. CO2-App (20)
5. (a) Discuss the structure of the web and how it influences the design of search algorithms. CO1-U (20)
Or
(b) Describe the integration of IR techniques in multimedia and digital library systems. CO1-U (20)

