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Pages: 2

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Seventh Semester B.Tech Degree Regular and Supplementary Examination December 2023 (2019 Scheme)

Course Code: ADT453

Course Name: INFORMATION EXTRACTION AND RETRIEVAL

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 3 marks.

Marks

- | | | |
|----|---|-----|
| 1 | What are the present forms of IR | (3) |
| 2 | Discuss the difference between adhoc-retrieval and filtering | (3) |
| 3 | Differentiate different models for browsing. | (3) |
| 4 | Why the Classic IR might lead to poor retrieval? | (3) |
| 5 | Explain the concept of a Boolean query with an example | (3) |
| 6 | Mention evaluation measures at the TREC conference | (3) |
| 7 | Briefly explain KNUTH MORRIS PRATT sequential searching | (3) |
| 8 | Define the term document clustering | (3) |
| 9 | Summarize the term web search | (3) |
| 10 | List out the significance of Advertisements as economic model | (3) |

PART B

Answer any one full question from each module, each carries 14 marks.

Module I

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|----|---|-----|
| 11 | a) What are the key differences between information retrieval and data retrieval? | (8) |
| | b) Discuss the evolution of information retrieval over time. | (6) |

OR

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|----|---|-----|
| 12 | a) Explain the influence of AI in information retrieval | (6) |
| | b) Explain the Information Retrieval in detail | (8) |

Module II

- | | | |
|----|---|-----|
| 13 | a) Discuss different retrieval evaluation models. | (5) |
| | b) Discuss the classical IR models in detail | (9) |

OR

- | | | |
|----|---|-----|
| 14 | a) Write a note on Alternative set theoretic models | (8) |
| | b) Briefly explain Structured text retrieval models | (6) |

Module III

- 15 a) Describe the term query protocol (7)
b) Define the term query languages. (7)

OR

- 16 a) Differentiate different reference collections (10)
b) Construct a Boolean query and tree that retrieves documents containing the words "Information retrieval" and "data retrieval" but excludes any documents with the word "web search" present. (4)

Module IV

- 17 a) Describe Text compression techniques? (7)
b) Elaborate the term inverted files. (7)

OR

- 18 a) Explain different text operations (14)

Module V

- 19 a) Briefly explain web crawler architectures (9)
b) Explain page rank (5)

OR

- 20 a) Define the term web graph (7)
b) Write a note on web search (7)
