

B

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Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

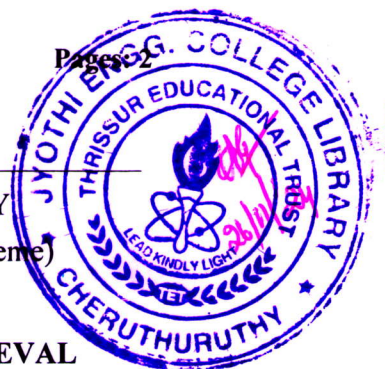
B.Tech Degree S7 (R, S) Examination November 2024 (2019 Scheme)

Course Code: ADT 453

Course Name: INFORMATION EXTRACTION AND RETRIEVAL

Max.Marks:100

Duration:3 Hours



PART A

Answer all questions, each carries 3 marks.

Marks

- | | | |
|----|---|-----|
| 1 | Define information retrieval. | (3) |
| 2 | Write the formal characterization of IR models. | (3) |
| 3 | Compare boolean and vector models. | (3) |
| 4 | Construct a Boolean query that retrieves documents containing the words "machine learning" and "classification" but excludes any documents with the word "neural networks" present. | (3) |
| 5 | Differentiate phrase and proximity. | (3) |
| 6 | Summarise the term single word queries. | (3) |
| 7 | Define meta data. | (3) |
| 8 | Enumerate different text formats. | (3) |
| 9 | Define crawler. | (3) |
| 10 | What do you mean by web directories? | (3) |

PART B

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

Module I

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|----|--|-----|
| 11 | a) Discuss the trends in IR. | (6) |
| | b) Differentiate data retrieval and information retrieval. | (8) |

OR

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|----|--|-----|
| 12 | a) Briefly explain taxonomy of IR models. | (6) |
| | b) How can you explain the logical view of a document? | (8) |

Module II

- | | | |
|----|---|------|
| 13 | a) Explain alternative algebraic IR model in detail. | (10) |
| | b) Define precision and recall in retrieval evaluation. | (4) |

OR

- | | | |
|----|-----------------------------------|------|
| 14 | a) Explain the classic IR models. | (14) |
|----|-----------------------------------|------|

Module III

- 15 a) Briefly describe query protocol. (9)
b) What are the evaluation measures of TREC. (5)

OR

- 16 What are ISI and CACM collections? Explain in detail. (14)

Module IV

- 17 What does sequential searching mean? Give two instances to illustrate your point. (14)

OR

- 18 In detail explain different Mark-up languages with example. (14)

Module V

- 19 a) Explain in detail, the centralized and Distributed architecture. (10)
b) Write a note on the user interfaces in web search. (4)

OR

- 20 a) Identify various characteristics of web. (8)
b) Explain page ranking algorithm. (6)
