

MASTER OF LIBRARY AND INFORMATION SCIENCE EXAMINATION, 2025

1st Year, 2nd Semester

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

Subject Code : ML-10

INFORMATION RETRIEVAL - II

Time : Two Hours

Full Marks : 50

Answer **all** the questions.

- 1A. What do you understand by multimedia information retrieval? Explain different aspects of audio retrieval mechanism. 6+9

OR

- 1B. Explain deep structure tree diagram proposed by Noam Chomsky with suitable examples. Elaborate Interactive Information Retrieval (IIR). What is information geometry? 6+6+3

- 2A. What is data mining? What are the different techniques of mining data? Explain expert systems. 4+8+3

OR

- 2B. What is Absolute Syntax? Explain Cognitive Information Retrieval (CIR) with suitable examples. 3+12

- 3A. What are the differences between classical probability and quantum probability? What are the different factors that become the impetus behind making a traditional information retrieval system into a quantum one? 6+9

OR

- 3B. Explain Large Language Model (LLM) citing references from appropriate AI tools? State the differences between bit and qubit with suitable examples. 10+5

4. Write short note on any **one**: 5×1=5

- a) Latent Semantic Analysis
- b) Content Based Image Retrieval (CBIR)
- c) Artificial Neural Network (ANN)
