

2025

M.Lib.I.Sc. 1st Semester Examination

**MASTER OF LIBRARY AND
INFORMATION SCIENCE**

Paper : MLIE410B0

(AI/ML in Libraries)

Full Marks : 50

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *four* questions : 5×4=20

1. Explain the concept of an Expert System with its key components.
2. What does the DIKW framework stand for? Explain how the DIKW model functions as a knowledge synthesizer in decision-making. 1+4
3. Define the Black Box problem in Artificial Intelligence. Explain how XAI helps to overcome this challenge. 2+3
4. Discuss the concept of Prompt Engineering with suitable examples.

P.T.O.

5. Discuss the role of metadata in Retrieval-Augmented Generation (RAG) systems.
6. What is AI Literacy? Explain why AI Literacy is essential for LIS professionals. 2+3

Group - B

Answer any *two* questions : 10×2=20

7. What do you mean by Supervised Learning? Differentiate between traditional programming and machine learning. Discuss the application of Machine Learning in library services. 2+4+4
8. What is Narrow AI? Discuss the transformative benefits of Artificial Intelligence and the major challenges associated with its adoption. 2+8
9. What are the four pillars of library data? Discuss the future of AI-powered libraries with special reference to AI-driven transformation of bibliographic systems. 4+6
10. Why is it called Generative AI? Explain its core technologies. Discuss the application and impact of Generative AI. 2+3+5

Internal Assessment : 10 marks
