

INDIAN STATISTICAL INSTITUTE BANGALORE CENTRE
Documentation Research and Training Centre

M.S. in Library and Information Science
Semester IV, Final Exam (AY 2025-26)

Paper 17: Web Based Information Systems and Services

Date: 22nd Apr 2026

Max. Marks: 100
Duration: 3 hours

Answer any 5 questions. All questions carry equal marks.

1. What are the types of metadata? Discuss two descriptive metadata standards.
2. Describe the guiding constraints of Representational State Transfer (REST) architecture. Also discuss how the REST architectural style is different from SOAP.
3. Discuss the rules for well-formed XML documents. Also explain XML validation rules using XML Schema and XML DTD, along with their differences.
4. Describe the usage of the OAI-PMH protocol, including the required parameters for each verb. Also explain selective harvesting and flow control as discussed in the protocol.
5. Explain, with examples, SRU and the Contextual Query Language (CQL).
6. Explain the importance and major operations of the Z39.50 protocol. Also explain the usage of the Bib-1 Attribute Set in the protocol.