

Indian Statistical Institute  
Documentation Research and Training Centre  
M.S. (Library and Information Science)  
1st Semester Final Examination (2024-2026)  
Paper 05: Foundations of Information and Communications Technology (ICT)

Date: 15-11-24

Time: 10:00 AM - 1:00 PM

Answer any **Five** question  
All questions carry equal marks  
Max. Marks: 100

1. Describe in detail XML and XSD.
2. Explain all the aspects of Computer networks.
3. What is HTML? List all the elements of HTML with examples.
4. Explain all the important statements of SQL.
5. Diagrammatically explain all kinds of SQL join statements with examples.
6. Provide SQL code for a rudimentary circulation system that prints out the names of library patrons who have kept books beyond 15 days.
7. What is regex? Explain in detail some of the important regular expressions.
8. Write short notes on any **four** of the following.
  - a) Linux environment variables
  - b) Redirection in Linux
  - c) Various kinds of editors
  - d) Any 8 most important Linux commands
  - e) ASCII and UNICODE
  - f) Linux directory structure
  - g) File formats