

Indian Statistical Institute

**Documentation Research and Training Centre
M.S. (Library and Information Science)
1st Semester, Mid-term Examination (2025-2027)**

Paper 05: Foundations of Information and Communications

Time: 11:30 AM - 1:00 PM

Max. Marks: 40

Date: 12-09-2025

[Instruction: Read the question before you attempt.]

Section A

(5 x 1 = 5 Marks)

1. The binary number 10101 is equivalent to decimal _____ .
2. ASCII uses how many bits?
3. Which memory is volatile: RAM or ROM?
4. In Linux, which command is used to display the present working directory for a source and destination while using SFTP?
5. DNS is primarily used to resolve _____ .

Section B

(7 x 5 = 35 Marks)

Attempt any 7 of the following.

1. Explain relative path and absolute path with examples in Linux.
2. Write short notes on: Environment Variables
3. Explain different network topologies with neat diagrams.
4. What are network classes? Give their address ranges.
5. Explain different file permission types in Linux. How can they be changed?
6. What are regular expressions? Mention three common use cases.
7. Write a short note on passwordless SSH access and how it is achieved.
8. Explain different number systems with one example each.