REV-01
MLS/06/12

2025/05

**SET A**

# MASTER OF LIBRARY & INFORMATION SCIENCE
## FOURTH SEMESTER
## LIBRARY AUTOMATION AND NETWORKING
## MLS – 401A
## [USE OMR SHEET FOR OBJECTIVE PART]

**Duration: 3 hrs.** **Full Marks: 70**

## Objective

**Time: 30 mins.** **Marks: 20**

***Choose the correct answer from the following:*** ***1×20=20***

1. Which of the following is an open-source Integrated Library Management System (ILMS)?
   a. Koha
   b. Libsys
   c. SLIM
   d. Alice

2. INFLIBNET stands for:
   a. Information Library Network
   b. Information and Library Network
   c. Indian National Federation for Libraries and Book Networks
   d. Indian Network of Federated Libraries

3. What is the role of OPAC in library automation?
   a. Staff payroll management
   b. Public access to library catalog
   c. Electronic book purchasing
   d. Firewall protection

4. Which technology is commonly used for automating book circulation?
   a. GPS
   b. RFID
   c. OCR
   d. Bluetooth

5. Dublin Core consists of how many core elements?
   a. 5
   b. 10
   c. 12
   d. 15

6. Which ISO standard defines the format of bibliographic information exchange?
   a. ISO 9001
   b. ISO 2709
   c. ISO 3166
   d. ISO 15924

7. The full form of ISBD is:
   a. International Standards for Book Data
   b. International Standard Bibliographic Description
   c. Indexed Standard Book Description
   d. Information System for Bibliographic Data

8. Which organization develop and maintain the MARC 21 format?
   a. UNESCO
   b. IFLA
   c. Library of Congress
   d. ISO

9. Which is NOT a form of communication technology?
   a. Television
   b. Email
   c. Radio
   d. Handwritten letter

10. Which of the following is a guided transmission medium?
    a. Radio waves
    b. Optical fiber
    c. Microwave
    d. Infrared

11. Twisted pair cables are most commonly used in:
    a. Television signals
    b. Telephone networks
    c. Wi-Fi networks
    d. Satellite communication

12. In half-duplex communication:
    a. Both devices can send and receive at the same time
    b. Only one device can send at a time
    c. No device can send
    d. Devices use different channels

13. Radio broadcasting is an example of:
    a. Simplex communication
    b. Half-duplex communication
    c. Full-duplex communication
    d. Interactive communication

14. Which of the following is not a switching technique?
    a. Circuit switching
    b. Packet switching
    c. Message switching
    d. Address switching

15. Which technique sends data in small units independently?
    a. Circuit switching
    b. Message switching
    c. Packet switching
    d. Frequency switching

16. Which of the following is a key component of a digital library?
    a. Digital repositories
    b. Paper-based storage
    c. Physical access points
    d. None of the above

17. Which of the following is an example of an open access repository?
    a. JSTOR
    b. Shodh ganga
    c. Science Direct
    d. Elsevier

18. What is a Library Consortium?
    a. A collection of physical books owned by a single library
    b. A partnership between libraries to share resources and services
    c. A digital platform for individual libraries
    d. A type of library funding program

19. Which of the following is the primary purpose of a Library Network?
    a. To sell books online
    b. To share resources, services, and information among multiple libraries
    c. To create a digital archive of newspapers
    d. To limit library access to only registered users

20. Which of the following is an example of a regional library network in India?
    a. DELNET
    b. OCLC
    c. Google Scholar
    d. ProQuest

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## Descriptive

**Time : 2 Hr. 30 Mins.** **Marks : 50**

[ Answer question no.1 & any four (4) from the rest ]

1. Provide a concise introduction to the concept of library automation, defining its scope and purpose. How can library automation contribute to the preservation of cultural heritage? 7+3=10

2. What is switching in computer networks? Explain the different types of switching techniques with their advantages and disadvantages. 2+8=10

3. What are the 15 core elements of the Dublin Core Metadata Standard, and what is their primary purpose? 10

4. Discuss the Guided Transmission Media in brief along with suitable examples. 10

5. What is communication Technology? Evaluate the role of communication technologies in facilitating remote work and online education. 3+7=10

6. What is Open Access in the context of scholarly publishing? Discuss the major types of Open Access models. How do these models differ in terms of accessibility, author rights, and cost? 2+5+3=10

7. Compare and contrast traditional libraries and digital libraries in terms of access, storage, user services, and cost-effectiveness. How does this change affect the work of librarians? 7+3=10

8. Write Short Note of Any 2 5×2=10
   a) MARC 21
   b) Library Consortium
   c) ISO 2709
   d) Transmission Modes in Data Communication

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