

*This question paper contains 2 printed pages.]*

**6756**

Your Roll No. ....

**MLIS / I Sem. A**

**Paper M-104 : INFORMATION AND  
COMMUNICATION TECHNOLOGY  
APPLICATION IN LIS (Theory)**

*Time : 3 Hours*

*Maximum Marks : 70*

*(Write your Roll No. on the top immediately  
on receipt of this question paper.)*

*Attempt all questions.*

1. What do you understand by TCP/IP ? Describe the TCP/IP protocol layer, architecture and explain the functions of each TCP/IP layer with diagram.

**Or**

12½

Explain the concept of 'Institutional Digital Repository'. Discuss the various steps involved in designing such a repository.

2. What do you understand by the concept 'Modes of Transmission' ? Explain various classifications of computer networks.

**Or**

12½

[P.T.O.]

What do you understand Wi-Fi technology ? Explain how wireless technology is useful in Libraries.

3. Define the term 'Network Topology'. Discuss different network topologies with suitable diagrams.

Or 12½

Explain the concept of 'Functional Requirements for Bibliographic Records (FRBR)' model. Describe different entities of FRBR with suitable examples.

4. Discuss the need, purpose and benefits of open source Library Automation and Digital Library Softwares.

Or 12½

What do you understand by 'Federated Search' ? Explain various Federated Search options available on Internet.

5. Write notes on any four of the following :

- (i) Internet Security
- (ii) Barcode v/s RFID
- (iii) Channels of ISDN
- (iv) Generations of OPAC
- (v) Working of Z 39.50 Protocol
- (vi) Virtual Library

4×5=20