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MLI-004

POST GRADUATE DIPLOMA IN LIBRARY AUTOMATION AND NETWORKING (PGDLAN)

Term-End Examination

December, 2021

MLI-004 : NETWORKING AND INTERNET TECHNOLOGY

Time : 2 Hours   *Maximum Marks : 50*

(Weightage : 40%)

Note : Answer **all** *questions. All questions carry equal marks. Illustrate your answer with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.*

1. Explain the concept of Integrated Services Digital Network (ISDN). Describe different types of ISDN services.

P. T. O.

Or

Explain the concept of Virtual Private Network (VPN) and describe the essential elements for its functioning.

2. Discuss the features and functions of two-tier (client-server) and three-tier architectures for network operations with the help of diagrams.

Or

Discuss how LAN can be implemented for library applications and services. What are the points to be kept in view in implementation of library LAN ?

3. What is meant by User Authentication in Networks ? Discuss authentication protocols.

Or

What do you understand by Transmission Media ? Explain guided and unguided media with suitable examples.

4. Explain resource sharing and describe the pre-requisites for resource sharing.

Or

Describe IFLA guidelines for resource sharing.

5. Write short notes on any **two** of the following (in about **250** words each) :

   (a) Twisted Pair Copper Wire

   (b) Routers *vs*. Bridges

   (c) Digital Certificates

   (d) Internet 3