

No. of Printed Pages : 2

MLI-004

00449

**POST GRADUATE DIPLOMA IN
LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)**

Term-End Examination

June, 2011

**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.

1.1 What is Internet Protocol ? Discuss various communication protocols used for Internet.

OR

1.2 Explain Open System Interconnections (OSI) model.

2.1 Discuss the ILL - code.

OR

2.2 Describe X.25 devices and protocol operations.

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P.T.O.

- 3.1 Discuss the functioning of search engines. Explain relevance of meta - search engines in searching information.

OR

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

- 4.1. Discuss the role of DELNET in resource sharing.

OR

- 4.2 Discuss different types of computer viruses and suggest remedies for avoiding them.

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

- (a) OCLC
- (b) V-SAT
- (c) ISDN
- (d) Extranet

No. of Printed Pages : 2

MLI-004

00118

**POST GRADUATE DIPLOMA IN
LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)**

Term-End Examination

December, 2011

**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 answers with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.

1.1 What do you understand by computer networking ? Explain WAN and its important technologies.

OR

1.2 What are the different layers of ISO/OSI reference model ? Describe the functions of any two of them. Illustrate with diagrams.

2.1 What is X. 25 ? Describe X. 25 devices.

OR

2.2 What is SMTP ? Describe its functions and limitations. Discuss how POP and IMAP try to solve the problems of SMTP ?

3.1 Explain the concept and different areas of resource sharing.

OR

3.2 Describe IFLA guidelines for resource sharing.

4.1 Describe the concept of network protocol and its role in a network.

OR

4.2 Discuss how information in Internet can be secured from damage/misuse.

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

(a) TCP/IP

(b) PING

(c) Internet relay chat

(d) Electronic document delivery

No. of Printed Pages : 2

MLI-004

00912

**POST GRADUATE DIPLOMA IN
LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)**

Term-End Examination

June, 2012

**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 answers with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.*

1.1 What is meant by guided transmission media ?

Describe its different types with their characteristic features.

OR

1.2 Define LAN. Explain the different topologies used for LAN. Illustrate with diagrams.

2.1 What is ISDN? Describe ISDN devices.

OR

2.2 Discuss how three - tier architecture tries to overcome the limitations of two - tier architecture. Describe different types of middle ware products.

3.1 Discuss the needs and prerequisites of resource sharing .

OR

3.2 Describe inter-library loan (ILL) code developed by IFLA.

4.1 Explain Internet addressing systems with examples.

OR

4.2 What is a search engine ? Describe the different categories of search engines.

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

- (a) Network Card
 - (b) Firewall
 - (c) Internet 2
 - (d) Consortia
-

No. of Printed Pages : 2

MLI-004

**POST GRADUATE DIPLOMA IN
LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)**

Term-End Examination

December, 2012

**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 answers with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.

- 1.1 Why was OSI model developed and what are its various layers? Discuss in detail the layer which determines the routing of data packets ?

OR

- 1.2 Explain various communication protocols used for internet.

- 2.1 Discuss various components of ISDN devices.

OR

- 2.2 How is ATM architecture organised? Discuss.

- 3.1 Explain the concept of National Information Policy for Library and Information Systems.

OR

- 3.2 Discuss the current patterns of document delivery.

- 4.1 What are basic objectives of a resource sharing network ? Explain the various components of such a network.

OR

- 4.2 Why is security in the internet era important ? What measures can be taken to protect and secure our system ?

- 5.0 Write short notes on *any two* of the following (in about 250 words)

- (a) Storage Area Network (SAN)
 - (b) Meta search engines
 - (c) Firewall
 - (d) TCP/IP
-

No. of Printed Pages : 2

MLI-004

00477

**POST GRADUATE DIPLOMA IN
LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)**

Term-End Examination

June, 2013

**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 answers with suitable examples and
diagrams, wherever necessary. Write relevant question
number before writing the answer.

1.1 Discuss the essential elements of a functional
Virtual Private Network(VPN) ?

OR

1.2 What do you understand by transmission media?
Explain with examples what is Guided and
Unguided media ?

2.1 What do you understand by Frame Relay?
Discuss briefly frame relay devices.

OR

2.2 Describe the different network topologies.

3.1 Discuss the pre-requisites for resource sharing ?

OR

3.2 State various international principles for resource sharing and enumerate guidelines supported by any two of them ?

4.1 Enumerate the different types of information services in the networked environment?

OR

4.2 What is Internet protocol ? Discuss briefly various protocols ?

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

- (a) Network Attached Storage (NAS)
 - (b) Listservs
 - (c) Audio and Video streaming
 - (d) Hypertext Markup Language (HTML)
-

No. of Printed Pages : 2

MLI-004

**POST GRADUATE DIPLOMA IN
LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)**

Term-End Examination

December, 2013

**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 answers with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.*

- 1.1** Explain the characteristics and uses of different types of computer network transmission media in which waves are guided along a physical path.

OR

- 1.2** Define Internet Protocol. Describe various communication protocols used for Internet.

- 2.1.** What is meant by user authentication in networks ? Discuss authentication protocols.

OR

- 2.2** Discuss the impact of electronic technology in interlibrary loan services and resource sharing.

- 3.1 Discuss with examples different categories of search engines in the context of Internet.

OR

- 3.2 How are the National Information Policy and National Information Network Policy related ? Discuss any four specific objectives indicating relationship among them.

- 4.1 Discuss the library and information services offered by INFLIBNET.

OR

- 4.2 Define Internet, Intranet and Extranet and discuss the features that differentiate them.

- 5.0 Write short notes on **any two** of the following (in about 250 words each)

- (a) Z 39.50
 - (b) OCLC
 - (c) OSI Network model
 - (d) Digital Certificates
-

No. of Printed Pages : 2

MLI-004

**POST GRADUATE DIPLOMA IN LIBRARY
AUTOMATION AND NETWORKING (PGDLAN)**

Term-End Examination
00502
June, 2014

**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 answers with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.

1.1 Identify the components of computer network and describe their functions.

OR

1.2 What is meant by Virtual Private Network (VPN) ? Describe the essential elements to make a VPN function.

2.1 Explain different types of protocols used in Internet with examples.

OR

2.2 Describe the seven-layered OSI network model. Give examples of respective protocols used in first four layers.

3.1 Describe major functions of ISO Network Management Model.

OR

3.2 What is a data network ? Enumerate the existing data networks in India. Explain the activities and the services of any two of them.

4.1 Differentiate between Intranet and Extranet and discuss some of their applications in libraries.

OR

4.2 What is World Wide Web (WWW) ? How does it work ?

5.0 Write short notes on any *two* of the following in about 250 words each :

(a) Satellite Communication

(b) ISDN

(c) Address Resolution Protocol

(d) RLIN

No. of Printed Pages : 2

MLI-004

00523

**POST GRADUATE DIPLOMA IN
LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)**

Term-End Examination

December, 2014

**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 answers with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.

- 1.1** What is TCP/IP? Describe the tasks of each layer of TCP/IP.

2+8=10

OR

- 1.2** What do you mean by IP address? How does it differ from DNS? Explain address formats for different classes of IP address.

2+2+6=10

- 2.1** What is Asynchronous Transfer Mode (ATM)? Describe the structure of a typical ATM-LAN. **2+8=10**

OR

- 2.2** Describe network operating systems.

10

- 3.1 What is resource sharing ? Discuss briefly the principles of resource sharing as proposed by IFLA. 2+8=10

OR

- 3.2 Discuss in brief library and information services in networked environment. 1+2+7=10

- 4.1 What do you mean by Internet Connectivity ? Describe the features for different categories of Internet connection options. 2+8=10

OR

- 4.2 What is SGML ? Make a comparison between XML and HTML as markup languages. 2+8=10

- 5.0 Write short notes on **any two** of the following :
(about **250** words each) : 5+5=10

- (a) Intranet
- (b) Meta search engine
- (c) Z 39.50
- (d) DELNET

No. of Printed Pages : 2

MLI-004

**POST GRADUATE DIPLOMA IN
LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)**

Term-End Examination

June, 2015

00328

**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 answers with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.

- 1.1** What is OSI reference model ? Describe the major role for each layer of OSI. 2+8=10

OR

- 1.2** What is Domain Name System (DNS) ? How is it related to IP address ? Explain the different components of the following URL –

<http://www.ignou.ac.in>.

3+2+5=10

- 2.1** What is Digital Subscriber Line (DSL) ? Make a comparison of ADSL, HDSL, SDSL and VDSL as variants of DSL. 2+8=10

OR

- 2.2** What is Virtual Private Network (VPN) ? Describe the functions of three essential components of a typical VPN. 2+8=10

- 3.1** Discuss the need of resource sharing. Discuss the common barriers to resource sharing in libraries. 4+6=10

OR

- 3.2** Discuss the development of library networks in India. 10

- 4.1** What do you mean by 'Network Based Information Services' ? Discuss the roles of library professionals in such an environment. 4+6=10

OR

- 4.2** What is 'Meta Search Engine' ? How does it differ from a search engine ? Write down the features of Telnet and FTP services. 2+2+6=10

- 5.0** Write short notes on any *two* of the following in about 250 words each : 5+5=10

- (a) TCP/IP
 - (b) Library Consortia
 - (c) XML
 - (d) ISDN
-

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No. of Printed Pages : 2

MLI-004

**POST GRADUATE DIPLOMA IN
LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)**

Term-End Examination

December, 2015

**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 answers with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.

1.1 What do you understand by computer-communication networks ? Explain the essential components of computer networking.

OR

1.2 Explain ISDN and its basic types.

2.1 Describe the ISO network management model for network management systems.

OR

2.2 Describe electronic document delivery service. Discuss its methods and the various phases of electronic document delivery.

3.1 Discuss the role of librarians in network-based information services.

OR

3.2 Discuss the major elements of management of library and information networks.

4.1 What is a computer virus ? How can the viruses be avoided ?

OR

4.2 What is Intranet ? How is it different from conventional LAN ? Discuss its advantages.

5.0 Write short notes on any *two* of the following in about 250 words each :

- (a) Client Server Computing
 - (b) Frame Relay
 - (c) Advantages of network-based information services
 - (d) Criteria for choosing a search engine
-

No. of Printed Pages : 2

MLI-004

00179

**POST GRADUATE DIPLOMA IN LIBRARY
AUTOMATION AND NETWORKING
(PGDLAN)**

Term-End Examination

June, 2016

**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 answers with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.*

- 1.1** What is meant by wide area network (WAN). Enumerate the important WAN technologies and explain them.

OR

- 1.2** Describe ISO/OSI model for computer communication architecture.

- 2.1** What are the functions that networking operating systems (NOS) perform ? Describe its different applications.

OR

- 2.2** Describe the objectives of resource sharing network. Discuss the role of cataloguing standards and Z 39.50 in library and information networks.

- 3.1 What is 'network management' ? Discuss the challenges in 'network management'.

OR

- 3.2 Describe the requirements for accessing Internet.

- 4.1 Discuss the features of Spyware, Firewalls and Proxy servers for Internet security.

OR

- 4.2 What is Extranet ? Discuss its advantages and also its library applications.

- 5.0 Write notes on **any two** of the following (in about 250 words each) :

- (a) Digital certificates
- (b) ILL code developed by IFLA
- (c) Components of resource sharing networks
- (d) Categories of search engines

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MLI-004

**POST GRADUATE DIPLOMA IN LIBRARY
AUTOMATION AND NETWORKING
(PGDLAN)**

Term-End Examination

December, 2016

**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 answers with suitable examples and
diagrams, wherever necessary. Write relevant question
number before writing the answer.*

- 1.1** What is TCP/IP ? Discuss the tasks related with four layers of TCP/IP. Mention the default port numbers for the following layer 4 protocols -
Telnet, FTP, SMTP and HTTP. **2+6+2=10**

OR

- 1.2** What do you mean by Asynchronous Transfer Mode (ATM) ? Describe the structure of an ATM cell with suitable illustration. **3+7=10**

- 2.1** Define 'Resource Sharing'. What are the components of a model resource sharing network ? Discuss. **3+7=10**

OR

- 2.2** What are the essential standards and protocols required for developing a library network ? Discuss any two services of INFLIBNET. **6+4=10**

- 3.1** What do you mean by 'Internet Architecture' ?
Discuss different options for internet connectivity.
Which connectivity option will you suggest for a
large university library system ? **2+6+2=10**

OR

- 3.2** What are the roles of protocols in a heterogenous
network system like Internet ? Discuss the use of
any two of the following protocols in Internet :
(a) HTTP; (b) SMTP; (c) FTP **2+8=10**

- 4.1** What do you mean by web searching tools ? Make
a comparative study of 'Subject directory', 'Search
engine' and 'Meta search engine' as web
searching tools. **1+9=10**

OR

- 4.2** 'Internet is the future platform for library services'. **10**
Elucidate.

- 5.0** Write short notes on any two of the following in
about 250 words each : **5x2=10**

- (a) Domain Name System
(b) Library consortia
(c) Document Delivery Service
(d) XML

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MLI-004

**POST GRADUATE DIPLOMA IN LIBRARY
AUTOMATION AND NETWORKING
(PGDLAN)**

Term-End Examination

June, 2017

**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 answers with suitable examples and
diagrams, wherever necessary. Write question number
before writing the answer.*

- 1.1 What are the components of a computer network ? Make a comparative study of different guided transmission media. **4+6**

OR

- 1.2 What do you mean by IP address ? Discuss the structure of three classes of IP address. How IP address is related with domain Name system (DNS) ? **2+6+2**

- 2.1 Explain the three tier client-server architecture with suitable illustration. What is CORBA ? **8+2**

OR

- 2.2 What do you mean by network-based information service ? Mention the scope of such services in an academic library. What should be the role of librarians as providers of network-based information services.

2+4+4

- 3.1 What do you mean by 'Internet Protocol'? Comment on any three of the following protocols.

2 ½+7 ½

- (a) HTTP; (b) FTP;
(c) TCP/IP and (d) Z39.50.

OR

- 3.2 What is 'Library Consortia' ? How does it differ from a library network ? Discuss the services of any library consortia operating in India.

2+3+5

- 4.1 What do you mean by 'Mark-up Language' ? Discuss the features of XML as mark-up language.

3+7

OR

- 4.2 What is a Search Engine ? How does it differ from a subject directory ? Explain the working procedure of a search Engine with suitable illustration.

2+3+5

- 5.0 Write short notes on **any two** of the following in about 250 words each :

5x2

- (a) Unicode
(b) Z 39.50
(c) VRML
(d) OSI Reference Model

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MLI-004

00841

**POST GRADUATE DIPLOMA IN LIBRARY
AUTOMATION AND NETWORKING
(PGDLAN)**

Term-End Examination

December, 2017

**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 answers with suitable examples and
diagrams, wherever necessary. Write relevant question
number before writing the answer.*

- 1.1 What is the role of transmission media in computer communication ? Make a comparative study of 'Coaxial cable' and 'Optical fibre' as guided transmission media. Enumerate the factors related with measuring performance of transmission media. 2+5+3=10

OR

- 1.2 What is TCP/IP ? Explain the application of TCP/IP in Internet as communication protocol. 2+8=10
- 2.1 What do you mean by 'Client-Server' architecture? Describe the features and advantages of Three-Tier architecture with suitable illustration. 2+8=10

OR

2.2 What is Network Operating System(NOS)? Enumerate the advantages of NOS in a computer network. Explain the use of following commands in NOS : **2+4+4=10**

- (a) ftp; (b) telnet;
(c) finger; and (d) ping.

3.1 'No library is self sufficient in the era of information explosion' - Elucidate the statement in the light of resource sharing. Discuss the components of a model resource sharing network. **4+6=10**

OR

3.2 Discuss the essence of IFLA guidelines for resource sharing covering eight major principles as proposed by IFLA. **10**

4.1 What are the differences between 'Data network' and 'Library network'? Describe the services of INFLIBNET as library network. **3+7=10**

OR

4.2 Make a comparative study of Internet, Intranet and Extranet. Discuss how a library can utilize Internet as a platform for providing services. **6+4=10**

5.0 Write short notes on **any two** of the following in about **250** words each : **5+5=10**

- (a) ISO-ILL code
(b) Internet Addressing System
(c) Satellite Communication
(d) Services of OCLC
-

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MLI-004

**POST GRADUATE DIPLOMA IN LIBRARY
AUTOMATION AND NETWORKING
(PGDLAN)**

Term-End Examination

June, 2018

**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 answers with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.*

1.1 What do you mean by LAN ? Explain Bus topology and Star topology. **2+8**

OR

1.2 What is OSI Reference Model ? Discuss the use of router, bridge and switch in network layer of OSI model. **1+9**

2.1 What is IP address ? How does it differ from Domain Name System (DNS) ? Explain the use of Ping, Tracert and Route commands in TCP/IP. **2+2+6**

OR

2.2 What is DSL ? Discuss the advantages associated with it. Make a comparison of ADSL, HDSL and VDSL as variations of DSL. **1+3+6**

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P.T.O.

- 3.1** Discuss the role of ERNET as data network in India. What are the objectives and services of INFLIBNET ? **4+6**

OR

- 3.2** Discuss the role of IAB, IETF and IANA in managing Internet. **10**

- 4.1** What do you mean by web searching tools ? Make a comparative study of subject directory, search engine and meta search engine as web searching tools. **1+9**

OR

- 4.2** Describe Internet addressing systems. **10**

- 5.0** Write notes on **any two** of the following topics (in about **250** words each) : **5+5**

(a) Transmission Media

(b) Z 39.50 Protocol

(c) ISDN Services

(d) Library Consortia

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No. of Printed Pages : 2

MLI-004

00861

**POST GRADUATE DIPLOMA IN LIBRARY
AUTOMATION AND NETWORKING
(PGDLAN)**

Term-End Examination

December, 2018

**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 answers with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.*

- 1.1** Discuss briefly the role of transmission media in data communication. Make a comparative study of twisted copper pair, coaxial cable and fibre optic as guided transmission media. **3+7**

OR

- 1.2** Write down major role of each layer in OSI Reference Model. How does it differ from TCP/IP ? **7+3**

- 2.1** What do you mean by ISDN ? Discuss the features of BRI ISDN service and PRI ISDN service. **2+8**

OR

- 2.2** What is Domain Name System (DNS) ? Explain the components of the DNS entry - ignou.ae.in. Enumerate the use of Ping, Telnet and Finger Commands in TCP/IP. **2+3+5**

- 3.1 Discuss the role of NICNET as data network in India. What are the objectives and services of DELNET ? 4+6

OR

- 3.2 Enumerate the roles of MARC21, Unicode and Z 39.50 as resource sharing standards. 10

- 4.1 What are the major features of ILL code of IFLA ? Describe Document Delivery Services in India. 5+5

OR

- 4.2 Describe the use of Telnet, FTP and HTTP as Internet protocols in data communication. 10

- 5.0 Write notes on any two of the following topics (in about 250 words each) : 5+5

- (a) LAN topologies
- (b) IP address
- (c) Web searching tools
- (d) Internet security

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No. of Printed Pages : 3

MLI-004

**POST GRADUATE DIPLOMA IN
LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)
Term-End Examination
June, 2019**

**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. What is TCP/IP ? Make a comparative study of OSI reference model and TCP/IP as communication protocol. 2, 8

Or

What is ISDN ? Discuss the devices that are required for setting an ISDN network. Differentiate BRI and PRI as basic types of ISDN services. 2, 4, 4

(A-20) P. T. O.

[2]

MLI-004

2. What do you mean by Asynchronous Transfer Mode (ATM) ? Describe the structure of an ATM cell with suitable illustration. 3, 7

Or

What is IP address ? Make a comparative study of three classes of IP addresses. Mention the role subnet masks in IP addressing. 2, 5, 3

3. What is a 'Library Consortia' ? How does it differ from a 'library network' ? Discuss the services of any *one* library consortia operating in India. 2, 3, 5

Or

Describe the components of a model resource sharing network. Evaluate the services provided by INFLIBNET as library network.

4. What is Internet ? Discuss the role of the following agencies in managing internet-IAB, IETF and IANA. $2\frac{1}{2}$, $7\frac{1}{2}$

Or

Enumerate the role of SGML, HTML and XML in shaping the WWW. What are the uses of subject directory, search engine and meta search engine as web searching tools ? 5, 5

(A-20)

[3]

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

(a) Virtual Private Network (VPN)

(b) Domain Name System (DNS)

(c) Digital Subscriber Line (DSL)

(d) Z 39.50 protocol

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No. of Printed Pages : 1

MLI-004

POST GRADUATE DIPLOMA IN LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)

Term-End Examination

December, 2019

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 answers with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.

1.1 What is meant by Virtual Private Network (VPN) ? Describe the essential elements to make a VPN function.

OR

1.2 Discuss the role of library networks in resource sharing. Describe the functions and services of DELNET.

2.1 What is UNICODE ? Discuss its essential features.

OR

2.2 Discuss the role of librarians in network-based information services.

3.1 What do you mean by IP address ? How does it differ from DNS ? Explain address formats for different classes of IP address.

OR

3.2 Discuss with examples different categories of search engines in the context of Internet.

4.1 What is SGML ? Make a comparison between XML and HTML as markup languages.

OR

4.2 Define Internet, Intranet and Extranet and discuss the features that differentiate them.

5.0 Write notes on any two of the following (in about 250 words each) :

- (a) Firewall
- (b) Computer viruses
- (c) Storage area network (SAN)
- (d) Copyright issues for resource sharing

No. of Printed Pages : 2

MLI-004

**POST GRADUATE DIPLOMA IN
LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)**

Term-End Examination

June, 2020

**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 answers with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.*

1. What is TCP/IP ? Describe the tasks of each layer of TCP/IP. 10

Or

What is X.25 ? Describe X.25 devices.

[2]

2. Describe the major functions of ISO Network Management Model. 10

Or

Discuss the impact of electronic technology in interlibrary loan services and resource sharing.

3. What are the components of Network Architecture ? Describe different network protocols. 10

Or

Explain different types of protocols used in Internet with examples.

4. Explain the need for Internet Security. How can the information in Internet be secured ? 10

Or

What is W3 ? Explain its characteristics.

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

- (a) Client-Server computing
- (b) Electronic document delivery
- (c) Instant messaging
- (d) Consortia-based services

No. of Printed Pages : 3

MLI-004

**POST GRADUATE DIPLOMA IN
LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)**

Term-End Examination

December, 2020

**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. What is Internet Protocol ? Discuss various communication protocols used for Internet.

[2]

MLI-004

Or

What is meant by Virtual Private Network (VPN) ? Describe the essential elements to make a VPN function.

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

Or

What is UNICODE ? Discuss its essential features.

3. Discuss the role of librarians in network-based information services.

Or

Describe the IFLA guidelines for resource sharing.

4. What do you understand by resource sharing ? Discuss the role of DELNET in resource sharing.

Or

Explain how information in Internet can be secured.

[3]

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

- (a) Satellite Communication
- (b) Digital Subscriber Line (DSL)
- (c) Domain Name System (DNS)
- (d) Categories of Search Engines



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